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ASMA

1983 Annual Survey of Manufactures

**Statistics for
Industry Groups
and Industries**

(Including Supplemental
Labor Costs)

M83(AS)-1

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U.S. Department of Commerce
BUREAU OF THE CENSUS

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ASMA

1983 Annual Survey of Manufactures

Issued November 1985



Statistics for Industry Groups and Industries

(Including Supplemental
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U.S. Department of Commerce

Malcolm Baldrige, Secretary

Clarence J. Brown, Deputy Secretary

Sidney Jones, Under Secretary for
Economic Affairs

BUREAU OF THE CENSUS

John G. Keane,

Director

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ASMA

1983 Annual Survey of Manufactures



BUREAU OF THE CENSUS

John G. Keane, Director

C.L. Kincannon, Deputy Director

Charles A. Waite, Associate Director
for Economic Fields

INDUSTRY DIVISION

Gaylord E. Worden, Chief

ACKNOWLEDGMENTS—The 1983 Annual Survey of Manufactures (ASM) was conducted under the direction of **Gaylord E. Worden**, Chief of the Industry Division. **John P. Govoni**, Assistant Chief for Census/Annual Survey of Manufactures Programs, was responsible for the overall management of the ASM. He guided the planning and implementation of the project and coordinated activities with other divisions.

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II

CONTENTS

[Page numbers listed here omit the prefix number
that appears as part of the number of each page]

Page

Introduction	1
--------------------	---

TABLES

1a. Industry Statistics for All Operating Manufacturing Establishments: 1983 and Earlier Years	4
1b. Manufacturing Employment: 1983 and Earlier Years	5
2. Statistics for Industry Groups and Industries: 1983 and 1982	8
3. Employment and Labor Cost for Operating Manu- facturing Establishments by Industry Group and Industry: 1983 and 1982	26
4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1983 and 1982	34

APPENDIX

Explanation of Terms	A-1
----------------------------	-----

III

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INTRODUCTION

GENERAL

This report presents manufacturing establishment statistics for industry groups and industries from the 1983 Annual Survey of Manufactures (ASM).

The estimates for 1983 are based upon reports from a representative sample of about 56,000 manufacturing establishments. The tables provide 1983 data on employment, hours, payrolls, value added by manufacture, capital expenditures, cost of materials, and value of industry shipments for most manufacturing industries. Establishments are classified in manufacturing industries in accordance with industry definitions described in the 1972 edition of the Standard Industrial Classification (SIC) Manual¹ published by the Office of Management and Budget.

SCOPE AND USE OF ANNUAL SURVEY

The 1983 Annual Survey of Manufactures is the 28th survey of this type conducted by the Bureau of the Census to provide for intercensal years the key measures of manufacturing activity for industry groups and important industries. These key measures, as well as other detailed statistics for manufacturing, were collected in the censuses of manufactures, the three most recent of which covered the years 1972, 1977, and 1982. An annual survey was conducted for each of the years between censuses starting with 1949.

During intercensal periods, these annual surveys provide a continuous series of basic statistics for industries, as well as furnish benchmarks for current business indicators and for measures of industrial production and productivity. The survey also provides significant data in connection with planning for industrial mobilization.

DESCRIPTION OF SURVEY SAMPLE

The statistics presented in this report are estimates compiled from a survey which is composed of two components. The mail portion of the survey is a probability sample of about 56,000 manufacturing establishments selected from a total of about 225,000 establishments. These 225,000 establishments represent all manufacturing establishments of multiunit companies and all single-unit manufacturing establishments with five employees or more tabulated in the 1977 Census of Manufactures lists. This mail portion is supplemented by a Social

Security Administration list of new manufacturing establishments opened after 1977. The individual establishments were defined as the sampling units for this sample. This is a change from the previous ASM sample when companies were used as the sampling units. The implication of this change is that the probability of selection of any establishment relates only to the size of the establishment itself and is independent of the size of the company with which the establishment is affiliated. The efficiencies associated with the change to an establishment sample have made it possible to reduce the mail sample panel from 70,000 establishments in 1978 to 56,000 establishments in the current panel.

The nonmail portion of the survey includes all single-unit establishments that were tabulated with less than five employees in the 1977 Census of Manufactures. Although this portion contained approximately 125,000 establishments, it accounted for less than 2 percent of the estimate for total value of shipments at the total manufacturing level. This portion was not sampled; rather, the data for every establishment in this group were estimated based on selected information obtained annually from the administrative records of the Internal Revenue Service and the Social Security Administration. This administrative record information, which includes payroll, total employment, industry classification, and physical location of the establishment, was obtained under special conditions which safeguard the confidentiality of both tax and census records. Estimates of data other than payroll and employment for these small establishments were developed from industry averages.

The corresponding estimates for the mail and nonmail establishments were added together, along with the adjusted base-year differences as defined in the Description of Estimating Procedure section, to produce the figures shown in this publication. The remaining description of the survey sample relates only to the mail portion of the ASM sample.

All establishments with 250 employees or more in the 1977 census were included in the survey panel with certainty. These establishments collectively account for approximately 65 percent of the total value of shipments for manufacturing establishments in the 1977 census. Smaller establishments were sampled with probabilities ranging from 1.000 down to 0.0005 in accordance with mathematical theory for optimum allocation of a sample.

The probabilities of selection assigned to the smaller establishments were proportional to measures of size determined for each establishment. For establishments included in the 1977 Census of Manufactures, the measures of size depended directly upon each establishment's 1977 product class values and the historic variability of the year-to-year shipments of each product class. All 1982 multiunit "birth" establishments were added to the mail file, as well as large single unit establishments with more than 35 employees.

¹Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

This method of assigning measures of size was used in order to maximize the precision (that is, minimize the variance of estimates of the year-to-year change) in the value of product class shipments. Implicitly, it also gave weight to differences in employment, value added, and other general statistics, since these are highly correlated with value of shipments. Individual sample selection probabilities were obtained by multiplying each establishment's final measure of size by an overall sampling fraction coefficient calculated to yield a total expected sample size.

The sample selection procedure gave each establishment in the sampling frame an independent chance of selection. This method of independent selection permits the rotation of establishments into and out of a given sample panel without introducing a bias into the survey estimates.

DESCRIPTION OF ESTIMATING PROCEDURE

Most of the ASM estimates for 1983 were computed using a modified difference estimation procedure. For each item, the difference between the 1982 census published number for an item total and the linear estimate of the totals for 1982 was generated. These base-year differences were then added to the corresponding current-year linear estimates, which include the sum of the estimates for the mail and nonmail establishments, to produce the current-year estimates shown in this publication. Estimates developed by this procedure usually are far more reliable than comparable linear estimates developed from the current sample data alone. Comparative data from the 1982 Census of Manufactures are shown in many of the tables.

QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sampled lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of the estimates.

The particular sample selected for the ASM is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected statistics in this report. They are presented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that

would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete coverage value would be included in the range:

1. From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
2. From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.
3. From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associate relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors would also occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected in the course of the Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(A)	Standard errors of 100 percent or more.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.

(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
(X)	Not applicable.
(Z)	Less than half the limit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
pt.	Part.
r	Revised.
SIC	Standard Industrial Classification.

Table 1a. Industry Statistics for All Operating Manufacturing Establishments: 1983 and Earlier Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments			All employees ¹			Production workers			Value added by manufacture ² (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures ⁴ (million dollars)
	Total (number)	With 20 employees or more (number)	Proprietors and partners (number)	Compensation		Number ¹ (1,000)	Hours (millions)	Wages (million dollars)					
				Number ² (1,000)	Payroll (million dollars)				Supplemental benefits (million dollars)				
1983	(NA)	(NA)	(NA)	17 463.5	354 247.3	84 297.4	12 203.0	23 611.6	212 417.4	882 014.5	1 170 237.8	2 054 853.3	61 930.5
1982	348 385	117 959	(NA)	17 818.1	341 406.2	80 993.4	12 400.6	23 538.3	204 787.2	824 117.7	1 130 142.7	1 960 205.8	74 561.6
1981	(NA)	(NA)	(NA)	18 919.8	341 319.8	77 000.5	13 542.8	26 233.1	212 200.9	837 506.5	1 193 969.6	2 017 542.5	78 632.3
1980	(NA)	(NA)	(NA)	19 311.4	316 494.5	70 109.8	13 900.1	26 745.7	198 164.0	773 831.3	1 093 567.6	1 852 668.3	70 112.8
1979	(NA)	(NA)	(NA)	19 756.5	298 529.1	64 638.3	14 537.8	28 324.3	192 881.5	747 480.5	999 157.5	1 727 214.6	61 533.0
1978	(NA)	(NA)	(NA)	19 239.4	271 540.9	57 666.8	14 228.7	27 676.5	176 416.8	657 412.0	877 424.7	1 522 937.3	55 209.2
1977	350 757	113 843	(NA)	18 515.9	242 031.9	49 989.3	13 691.0	26 686.7	157 163.7	585 165.6	782 417.7	1 358 526.4	47 459.0
1976 ⁵	(NA)	(NA)	(NA)	17 681.9	212 997.1	41 477.0	13 051.2	25 353.8	137 564.0	511 470.9	681 194.1	1 185 695.3	40 545.2
1975 ⁵	(NA)	(NA)	(NA)	17 173.7	190 503.9	35 411.6	12 567.9	24 069.9	121 427.2	442 485.8	597 327.0	1 039 377.4	37 262.1
1974 ⁵	(NA)	(NA)	(NA)	18 712.8	190 565.8	32 841.8	13 970.9	27 239.3	124 983.2	452 468.4	581 580.0	1 017 873.4	35 696.4
1973 ⁵	(NA)	(NA)	(NA)	18 871.4	178 332.2	29 253.9	14 233.1	28 096.8	118 332.3	405 623.5	478 169.6	875 443.2	26 978.8
1972	312 662	109 941	(NA)	18 032.4	160 414.4	24 637.3	13 526.5	26 696.7	105 494.7	353 974.2	407 418.7	756 534.3	24 072.6
1971 ⁵	(NA)	(NA)	(NA)	17 426.3	144 246.3	21 627.7	12 874.9	25 265.9	93 231.7	314 138.4	356 016.9	670 970.5	20 940.7
1970 ⁵	(NA)	(NA)	(NA)	18 289.5	141 886.4	19 292.2	13 528.0	26 669.3	91 609.0	300 227.6	336 551.6	634 322.1	22 164.3
1969 ⁵	(NA)	(NA)	(NA)	19 155.6	142 645.1	18 635.8	14 357.8	28 599.8	93 459.6	304 440.7	341 724.5	642 635.8	22 291.4
1968 ⁵	(NA)	(NA)	(NA)	18 681.0	132 568.4	16 574.0	14 041.2	28 156.8	87 480.4	285 058.9	320 698.0	603 220.1	20 613.1
1967	305 680	107 136	(NA)	18 492.0	123 480.6	15 060.2	13 955.3	27 837.6	81 393.6	261 983.8	298 513.7	557 397.8	21 503.0
1966 ⁵	(NA)	(NA)	(NA)	18 200.3	117 157.4	(NA)	13 826.5	28 102.5	78 256.4	250 880.1	293 663.8	538 736.9	20 235.8
1965 ⁵	(NA)	(NA)	(NA)	17 250.5	106 643.2	(NA)	13 076.0	26 567.8	71 361.5	226 939.9	268 385.8	492 005.7	16 615.0
1964 ⁵	(NA)	(NA)	(NA)	16 485.7	98 685.3	(NA)	12 403.2	25 245.5	65 838.9	206 193.6	244 080.5	447 985.1	13 294.3
1963	306 317	99 352	168 674	16 231.9	93 283.3	(NA)	12 232.0	24 509.4	62 093.6	192 082.9	229 683.8	420 528.1	11 370.0
1962 ⁵	(NA)	(NA)	(NA)	16 154.7	89 819.2	(NA)	12 126.5	24 269.5	59 134.1	179 071.1	221 471.8	399 308.9	10 436.2
1961 ⁵	(NA)	(NA)	(NA)	15 729.6	83 677.4	(NA)	11 778.5	23 289.4	54 764.6	164 281.1	206 404.6	369 994.3	9 779.8
1960 ⁵	(NA)	(NA)	(NA)	16 149.9	83 672.5	(NA)	12 209.5	24 174.4	55 555.5	163 998.5	(NA)	(NA)	10 097.8
1959 ⁵	(NA)	(NA)	(NA)	16 062.9	81 203.6	(NA)	12 272.6	24 443.6	54 714.1	161 535.8	(NA)	(NA)	9 140.0
1958 ⁵	299 017	95 278	185 732	15 423.1	73 875.2	(NA)	11 811.1	22 679.2	49 605.2	141 540.6	(NA)	(NA)	9 543.5
1957 ⁵	(NA)	(NA)	(NA)	16 621.1	76 314.6	(NA)	12 838.9	25 569.0	52 582.5	147 838.4	(NA)	(NA)	12 144.0
1956 ⁵	(NA)	(NA)	(NA)	16 694.4	74 015.1	(NA)	13 131.3	26 088.5	52 040.8	144 909.3	(NA)	(NA)	11 233.2
1955 ⁵	(NA)	(NA)	(NA)	16 355.5	69 096.6	(NA)	12 954.4	25 898.3	49 217.9	135 022.5	(NA)	(NA)	8 233.1
1954	286 814	90 470	197 850	15 645.5	62 962.7	(NA)	12 372.0	24 344.1	44 590.5	117 032.3	(NA)	(NA)	8 200.7
1953 ⁵	285 000	(NA)	(NA)	16 693.1	66 492.9	(NA)	13 500.9	27 065.6	48 979.1	121 659.1	(NA)	(NA)	8 047.9
1952 ⁵	267 000	(NA)	(NA)	15 732.7	59 598.2	(NA)	12 706.0	25 617.6	43 763.6	109 162.1	(NA)	(NA)	7 883.4
1951 ⁵	262 000	(NA)	(NA)	15 309.6	54 741.5	(NA)	12 508.9	25 263.8	40 654.8	102 085.8	(NA)	(NA)	7 781.7
1950 ⁵	260 000	(NA)	(NA)	14 467.1	46 642.8	(NA)	11 778.8	23 116.5	34 600.0	99 749.8	(NA)	(NA)	5 041.3
1949 ⁵	(NA)	(NA)	(NA)	13 566.9	41 482.0	(NA)	11 016.3	21 769.7	30 254.0	75 366.5	(NA)	(NA)	5 066.9
1947	240 807	(NA)	188 948	14 294.0	39 395.6	(NA)	11 917.9	24 316.5	30 244.0	74 290.5	(NA)	(NA)	5 998.1
1939 ⁵	173 802	(NA)	123 655	*9 527.3	*12 706.1	(NA)	7 808.2	(NA)	8 997.5	24 487.3	(NA)	(NA)	(NA)
1937	166 794	(NA)	99 268	9 786.4	12 829.7	(NA)	8 569.2	(NA)	10 112.9	25 173.5	(NA)	(NA)	(NA)
1935	167 916	(NA)	81 521	8 262.3	9 564.8	(NA)	7 203.8	(NA)	7 311.3	18 552.6	(NA)	(NA)	(NA)
1933	139 325	(NA)	72 267	6 557.9	*6 237.8	(NA)	5 787.6	(NA)	4 940.1	14 007.5	(NA)	(NA)	(NA)
1931	171 450	(NA)	(NA)	(NA)	(NA)	(NA)	6 163.1	(NA)	6 688.5	18 600.5	(NA)	(NA)	(NA)
1929	206 663	(NA)	132 686	9 659.7	14 284.3	(NA)	8 369.7	(NA)	10 884.9	30 591.4	(NA)	(NA)	(NA)
1927	187 629	(NA)	132 151	9 072.1	13 123.1	(NA)	7 848.1	(NA)	10 099.5	26 325.4	(NA)	(NA)	(NA)
1925	185 877	(NA)	132 971	9 142.4	12 957.7	(NA)	7 871.4	(NA)	9 979.6	25 667.6	(NA)	(NA)	(NA)
1923	192 096	(NA)	147 958	9 474.7	12 996.5	(NA)	8 194.2	(NA)	10 148.6	24 569.5	(NA)	(NA)	(NA)
1921	192 059	(NA)	172 291	7 557.4	9 870.2	(NA)	6 475.5	(NA)	7 451.3	17 252.8	(NA)	(NA)	(NA)
1919	270 231	(NA)	249 865	9 836.9	12 425.9	(NA)	8 464.9	(NA)	9 664.0	23 841.6	(NA)	(NA)	(NA)
1914	268 436	(NA)	258 560	7 514.2	5 016.0	(NA)	6 602.3	(NA)	3 762.3	9 385.6	(NA)	(NA)	(NA)
1909	264 810	(NA)	272 421	7 021.1	4 105.5	(NA)	6 261.7	(NA)	3 205.2	8 160.1	(NA)	(NA)	(NA)
1904	213 444	(NA)	225 115	5 674.9	2 990.9	(NA)	5 181.7	(NA)	2 440.9	6 019.2	(NA)	(NA)	(NA)
1899	204 754	(NA)	(NA)	4 850.0	2 258.7	(NA)	4 501.9	(NA)	1 892.6	4 647.0	(NA)	(NA)	(NA)
1899 ¹¹	509 490	(NA)	(NA)	5 478.3	2 595.6	(NA)	5 097.6	(NA)	2 206.5	5 474.9	(NA)	(NA)	(NA)
1889	353 864	(NA)	(NA)	4 586.5	2 209.1	(NA)	4 129.4	(NA)	1 820.9	4 102.3	(NA)	(NA)	(NA)
1879	253 852	(NA)	(NA)	(NA)	(NA)	(NA)	2 732.6	(NA)	948.0	1 972.8	(NA)	(NA)	(NA)
1869	252 148	(NA)	(NA)	(NA)	(NA)	(NA)	2 054.0	(NA)	620.5	1 395.1	(NA)	(NA)	(NA)
1859	140 433	(NA)	(NA)	(NA)	(NA)	(NA)	1 311.2	(NA)	378.9	854.3	(NA)	(NA)	(NA)
1849	123 025	(NA)	(NA)	(NA)	(NA)	(NA)	957.1	(NA)	236.8	464.0	(NA)	(NA)	(NA)

¹Figures for 1939 to 1983 include data for employees at manufacturing establishments who were engaged in distribution and in construction work. The extent to which data for such employees were included in the figures for earlier years is not known. In addition to employment and payroll for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for auxiliary units (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.) which service the manufacturing establishment(s) a company.

²Method of compiling figures varied as follows. All employees: for 1955 to 1983, figures represent average of number of production workers for payroll period ended nearest the 12th of March, May, August, November, plus all other employees for payroll period ended nearest the 12th of March, for 1949 to 1954, figures represent an average of all employees for payroll period ended nearest the 12th of March, May, August, and November for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, average number of production workers based on 12 monthly figures, plus number of nonproduction workers for one payroll period (usually in October). Production workers: for 1949 to 1983 figures are based on employment for payroll period ended nearest the 12th of March, May, August, and November; for 1947 and prior years, figures represent the average of 12 monthly figures.

³For 1954 to 1983, value added by manufacture represents adjusted value added for earlier years; unadjusted value added is obtained by subtracting cost of materials, supplies and containers, fuel, purchased electric energy, and contract work from value of shipments for products manufactured plus receipts for services rendered. Adjusted value added also takes into account (a) value added by merchandising operations difference between sales value and cost of merchandise sold without further manufacture, processing, or assembly; plus (b) net change in finished goods and work-in-process between the beginning- and end-of-year inventories. For 1849 to 1933, cost of contract work was not subtracted from value of shipments in calculating value added by manufacture.

⁴Figures for 1951 to 1983 include expenditures for plants under construction and not yet in operation. This information was not collected prior to 1951.

⁵Figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, therefore, may differ from results that would have been obtained from a complete canvass of all manufacturing establishments. Standard errors associated with these estimates are published in Annual Survey of Manufactures volumes for this period.

⁶Figures for 1958 and subsequent years include establishments classified in Industry 3273, Ready-Mixed Concrete, and establishments classified in Industry 3599, Machinery, Except Electrical, N.E.C., which were engaged exclusively or almost exclusively in machine shop repair work. Data for such establishments are excluded from figures for 1939 to 1957, but are included for 1929 and earlier years. Figures for 1954 to 1966 include data for establishments engaged in processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in figures for earlier census years. Beginning with 1954, figures include data for Industry 2411, Logging Camps and Logging Contractors, which were not included with the scope of the 1947 census. There were also a number of changes in the definition of manufacturing industries during earlier census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for railroad repair shops and manufactured gas which were included in 1899 to 1933 figures; minimum size of establishment included for 1947 to 1966 was one employee; for 1921 to 1939, manufacturing establishments reporting value of shipments of \$5,000 or more were within scope; whereas for 1919 and earlier years, the cutoff was \$500. (These changes in procedure have not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

⁷Figures for 1939 have been revised on the basis of revaluation of returns to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing beginning with 1947. Value added by manufacture for 1939, prior to revision and on a basis comparable with 1937 and previous years, was \$24.7 billion.

⁸Not revised to exclude data for establishments classified as manufacturing in 1939 and prior years, but classified as nonmanufacturing beginning with 1947.

⁹Figures for 1939 for "all employees" were revised on basis of estimates rather than by revaluation of 1939 reports. Estimates were made in the following manner: for number of employees, by multiplying revaluated figure for number of production workers by ratio of all employees to production workers computed from unrevised 1939 statistics; for salaries and wages, by multiplying revaluated wage figure by ratio for salaries and wages derived from unrevised 1939 statistics.

¹⁰Not including data for salaried officers of corporations and their salaries, and, therefore, not strictly comparable with figures for other years.

¹¹Figures for 1899 and earlier years represent hand and neighborhood manufacturing operations.

Table 1b. Manufacturing Employment: 1983 and Earlier Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries		
		Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	
	All industries -----	1983.. 18 719.6	394 736.0	17 463.5	354 247.3	1 256.1	40 488.7	
	1982.. 19 094.1	379 626.5	17 818.1	341 406.2	1 276.0	38 220.3		
	1981.. 20 264.0	379 214.4	18 919.8	341 319.8	1 344.2	37 894.6		
	1980.. 20 646.7	350 410.8	19 311.4	316 494.5	1 335.3	33 916.3		
	1979.. 21 040.2	328 887.9	19 756.5	298 529.1	1 283.7	30 358.8		
	1978.. 20 501.9	298 967.4	19 239.4	271 540.9	1 262.5	27 426.5		
	1977.. 19 590.1	264 013.1	18 515.9	242 031.9	1 074.2	21 981.2		
	1972.. 19 026.8	174 186.7	18 032.4	160 414.4	994.3	13 772.3		
	1967.. 19 322.9	132 208.5	18 492.3	123 480.6	830.9	8 727.9		
	1963.. 18 958.4	99 698.8	16 231.9	93 283.3	726.5	6 615.5		
	1958.. 18 025.2	78 348.9	15 423.1	73 875.2	602.1	4 473.7		
	20	Food and kindred products -----	1983.. 1 563.9	30 156.1	1 445.6	26 602.5	118.3	3 553.6
		1982.. 1 596.6	29 118.6	1 487.7	26 087.5	108.9	3 031.1	
		1981.. 1 649.0	28 138.7	1 511.2	24 695.7	137.8	3 443.0	
		1980.. 1 676.0	26 341.7	1 538.8	23 485.5	137.2	3 083.2	
1979.. 1 687.7		24 460.5	1 552.2	21 678.0	135.5	2 782.5		
1978.. 1 665.7		22 669.0	1 546.9	20 308.4	118.8	2 360.0		
1977.. 1 622.1		20 472.7	1 520.0	18 543.6	102.1	1 929.1		
1972.. 1 663.0		14 098.0	1 569.3	12 920.2	93.7	1 177.8		
1967.. 1 725.9		10 841.5	1 649.6	10 076.8	76.3	764.7		
1963.. 1 714.6		9 233.9	1 643.1	8 637.2	71.5	596.8		
1958.. 1 781.4		8 064.4	1 718.1	7 622.3	63.3	442.1		
21		Tobacco products -----	1983.. 69.7	1 803.0	54.8	1 354.9	14.9	448.1
		1982.. 72.1	1 716.8	57.9	1 323.5	14.2	393.3	
		1981.. 74.2	1 574.1	61.1	1 219.2	13.1	354.9	
		1980.. 71.4	1 366.8	58.0	1 044.8	13.4	322.0	
	1979.. 73.5	1 216.1	58.6	906.0	14.9	310.1		
	1978.. 73.0	1 046.1	59.1	812.5	13.9	233.6		
	1977.. 68.6	897.6	60.6	750.7	8.0	146.9		
	1972.. 74.3	595.7	66.3	502.1	8.0	93.6		
	1967.. 83.1	451.2	75.1	376.8	8.0	74.4		
	1963.. 83.8	381.3	77.3	330.5	6.5	50.8		
	1958.. 92.0	341.7	84.5	294.6	7.5	47.1		
	22	Textile mill products -----	1983.. 756.1	10 866.4	723.3	10 060.5	32.8	805.9
		1982.. 750.3	9 840.1	717.4	9 046.1	32.9	794.0	
		1981.. 823.1	10 350.0	785.2	9 574.0	37.9	776.0	
		1980.. 854.1	9 990.1	816.1	9 228.1	38.0	762.0	
1979.. 879.0		9 549.0	842.1	8 823.5	36.9	725.5		
1978.. 898.7		9 008.1	861.8	8 367.9	36.9	640.2		
1977.. 908.9		8 434.4	875.7	7 881.4	33.2	553.0		
1972.. 983.8		8 413.0	952.6	6 051.0	31.2	362.0		
1967.. 954.0		4 610.6	929.0	4 390.9	25.0	219.7		
1963.. 893.1		3 536.0	863.2	3 385.0	19.9	152.9		
1958.. 918.6		3 043.1	903.2	2 942.9	15.4	100.2		
23		Apparel and other textile products -----	1983.. 1 226.3	13 632.6	1 190.5	12 789.4	35.8	843.2
		1982.. 1 224.0	12 881.9	1 189.2	12 128.8	34.8	753.1	
		1981.. 1 291.9	12 582.6	1 251.1	11 804.6	40.8	778.0	
		1980.. 1 342.8	11 977.3	1 307.3	11 354.3	35.5	623.0	
	1979.. 1 340.0	11 244.1	1 306.2	10 624.2	33.8	541.6		
	1978.. 1 356.0	10 692.7	1 321.8	10 190.8	34.2	501.9		
	1977.. 1 361.8	10 062.2	1 334.3	9 658.6	27.5	403.6		
	1972.. 1 394.0	7 478.1	1 368.3	7 212.0	25.7	266.1		
	1967.. 1 372.9	5 722.2	1 356.7	5 582.2	16.2	140.0		
	1963.. 1 290.5	4 508.8	1 279.5	4 423.0	11.0	85.8		
	1958.. 1 188.5	3 637.7	1 181.0	3 586.6	7.5	51.2		
	24	Lumber and wood products -----	1983.. 648.2	10 312.4	628.9	9 715.2	19.3	597.2
		1982.. 598.4	9 051.5	576.5	8 444.4	21.9	607.1	
		1981.. 667.2	9 438.0	649.4	8 990.9	17.8	447.1	
		1980.. 716.2	10 246.3	698.1	8 904.8	18.1	441.5	
1979.. 759.7		9 432.4	742.5	9 042.2	17.2	390.2		
1978.. 739.3		8 746.7	723.2	8 411.1	16.1	335.6		
1977.. 706.9		7 694.9	692.4	7 424.7	14.5	270.2		
1972.. 703.4		5 131.3	691.0	4 985.6	12.4	145.7		
1967.. 561.7		2 872.6	554.0	2 798.9	7.7	73.7		
1963.. 568.7		2 385.4	563.1	2 338.7	5.6	46.7		
1958.. 591.0		2 042.2	585.4	2 007.5	5.7	34.8		
25		Furniture and fixtures -----	1983.. 454.4	6 879.8	443.6	6 615.2	10.8	264.6
		1982.. 446.6	6 336.3	436.0	6 083.7	10.6	252.6	
		1981.. 472.2	6 243.2	459.8	5 982.8	12.4	260.4	
		1980.. 481.9	5 805.2	472.7	5 623.2	9.2	182.0	
	1979.. 491.5	5 516.4	482.9	5 361.9	8.6	154.5		
	1978.. 491.4	5 185.1	481.0	5 029.2	10.4	155.9		
	1977.. 553.3	4 538.4	463.8	4 448.3	9.0	140.1		
	1972.. 468.5	3 286.3	462.0	3 205.4	6.5	80.9		
	1967.. 430.0	2 305.1	425.3	2 258.3	4.7	46.8		
	1963.. 381.2	1 767.1	376.5	1 726.7	4.7	40.4		
	1958.. 357.2	1 436.0	354.2	1 413.7	3.0	22.3		
	26	Paper and allied products -----	1983.. 638.6	14 863.5	606.7	13 842.8	31.9	1 020.7
		1982.. 636.9	14 047.1	605.6	12 947.5	31.3	1 099.6	
		1981.. 688.1	14 189.8	635.8	12 643.7	52.3	1 545.1	
		1980.. 694.9	13 027.5	646.3	11 730.6	48.6	1 296.9	
1979.. 706.8		12 039.8	657.8	10 810.0	49.0	1 229.8		
1978.. 689.0		10 994.5	638.6	9 852.3	50.4	1 142.2		
1977.. 666.3		9 845.3	628.7	8 942.9	37.6	902.4		
1972.. 667.8		6 465.5	633.4	5 992.1	34.4	473.4		
1967.. 670.7		4 786.7	638.9	4 436.2	31.8	350.5		
1963.. 613.8		3 746.4	588.0	3 508.2	25.8	238.2		
1958.. 573.6		2 920.9	551.3	2 759.4	22.3	161.5		

See footnotes at end of table.

Table 1b. Manufacturing Employment: 1983 and Earlier Years—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries				
		Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)			
27	Printing and publishing -----	1983..	1 353.0	25 549.0	1 300.7	24 211.7	52.3	1 337.5		
		1982..	1 340.1	23 912.1	1 291.8	22 706.9	48.3	1 205.2		
		1981..	1 316.2	21 631.5	1 270.1	20 609.3	46.1	1 022.2		
		1980..	1 312.5	19 834.7	1 262.8	18 843.1	49.7	991.6		
		1979..	1 269.0	17 769.1	1 223.0	16 952.6	46.0	816.5		
		1978..	1 186.2	16 243.4	1 144.8	15 535.8	41.4	707.6		
		1977..	1 131.1	14 645.9	1 092.2	14 024.5	38.9	621.4		
		1972..	1 085.5	10 162.1	1 056.5	9 831.2	29.0	330.9		
		1967..	1 052.1	7 323.5	1 031.0	7 151.5	21.1	172.0		
		1963..	925.1	5 611.5	913.2	5 514.8	11.8	96.7		
		1958..	871.7	4 533.9	864.6	4 489.2	7.1	44.6		
		1977..	1 061.6	17 638.2	880.2	13 839.3	181.4	3 796.9		
		1972..	995.0	10 908.2	836.5	8 730.5	158.5	2 177.7		
		1967..	982.7	7 932.1	841.4	6 443.0	141.3	1 489.1		
		1963..	853.1	6 013.6	737.4	4 969.8	115.7	1 043.8		
		1958..	783.9	4 604.5	698.3	3 940.5	85.6	664.0		
28	Chemicals and allied products -----	1983..	1 051.6	28 258.3	850.7	21 411.2	200.9	6 877.1		
		1982..	1 079.0	27 462.3	872.5	20 835.7	206.5	6 626.6		
		1981..	1 092.9	25 820.3	892.3	19 722.8	200.6	6 097.5		
		1980..	1 109.9	23 707.5	909.7	18 269.0	200.2	5 438.5		
		1979..	1 095.3	21 376.9	895.0	16 515.9	200.3	4 861.0		
		1978..	1 101.8	19 878.4	896.3	15 286.5	205.5	4 591.9		
		1977..	1 061.6	17 638.2	880.2	13 839.3	181.4	3 796.9		
		1972..	995.0	10 908.2	836.5	8 730.5	158.5	2 177.7		
		1967..	982.7	7 932.1	841.4	6 443.0	141.3	1 489.1		
		1963..	853.1	6 013.6	737.4	4 969.8	115.7	1 043.8		
		1958..	783.9	4 604.5	698.3	3 940.5	85.6	664.0		
		1977..	212.1	4 258.2	146.8	2 696.2	65.3	1 562.0		
		1972..	209.5	2 633.7	139.5	1 637.5	70.0	996.2		
		1967..	210.7	1 960.5	141.6	1 216.1	69.1	744.4		
		1963..	219.9	1 762.9	153.5	1 133.8	66.4	629.1		
		1958..	247.4	1 655.9	179.1	1 116.7	68.3	539.2		
29	Petroleum and coal products -----	1983..	221.5	7 261.5	146.3	4 409.1	75.2	2 852.4		
		1982..	228.0	6 906.9	151.6	4 338.7	76.0	2 568.2		
		1981..	231.3	6 716.5	152.2	4 076.3	79.1	2 640.2		
		1980..	230.5	5 933.9	148.9	3 615.1	81.6	2 318.8		
		1979..	230.2	5 386.3	157.5	3 418.0	72.7	1 968.3		
		1978..	218.9	4 733.3	148.2	3 001.0	70.7	1 732.3		
		1977..	212.1	4 258.2	146.8	2 696.2	65.3	1 562.0		
		1972..	209.5	2 633.7	139.5	1 637.5	70.0	996.2		
		1967..	210.7	1 960.5	141.6	1 216.1	69.1	744.4		
		1963..	219.9	1 762.9	153.5	1 133.8	66.4	629.1		
		1958..	247.4	1 655.9	179.1	1 116.7	68.3	539.2		
		1977..	716.0	13 423.7	684.4	12 305.4	33.6	1 118.3		
		1972..	713.4	12 577.3	681.7	11 596.8	31.7	972.0		
		1981..	721.6	11 900.0	691.2	11 047.1	30.4	852.9		
		1980..	731.7	10 814.1	703.2	10 140.5	28.5	673.6		
		1979..	781.0	10 747.4	753.7	10 146.4	27.3	601.0		
1978..	770.9	9 915.4	748.0	9 422.2	22.9	493.2				
30	Rubber and miscellaneous plastics products -----	1983..	718.0	13 423.7	684.4	12 305.4	33.6	1 118.3		
		1982..	713.4	12 577.3	681.7	11 596.8	31.7	972.0		
		1981..	721.6	11 900.0	691.2	11 047.1	30.4	852.9		
		1980..	731.7	10 814.1	703.2	10 140.5	28.5	673.6		
		1979..	781.0	10 747.4	753.7	10 146.4	27.3	601.0		
		1978..	770.9	9 915.4	748.0	9 422.2	22.9	493.2		
		1977..	746.5	8 994.3	721.3	8 536.0	25.2	458.3		
		1972..	635.1	5 381.9	617.7	5 165.2	17.4	216.7		
		1967..	531.0	3 421.8	516.7	3 286.5	14.3	135.3		
		1963..	426.7	2 470.8	415.0	2 384.0	11.8	106.7		
		1958..	356.1	1 785.5	347.8	1 723.3	8.3	62.2		
		1977..	198.5	2 455.7	188.8	2 225.1	9.7	230.6		
		1982..	208.8	2 423.3	199.8	2 218.5	9.0	204.8		
		1981..	238.5	2 551.4	227.6	2 363.3	10.9	188.1		
		1980..	241.7	2 334.9	232.4	2 199.9	9.3	135.0		
		1979..	248.8	2 214.8	238.6	2 085.4	10.2	129.4		
1978..	255.4	2 149.9	244.4	1 996.0	11.0	153.9				
31	Leather and leather products -----	1983..	198.5	2 455.7	188.8	2 225.1	9.7	230.6		
		1982..	208.8	2 423.3	199.8	2 218.5	9.0	204.8		
		1981..	238.5	2 551.4	227.6	2 363.3	10.9	188.1		
		1980..	241.7	2 334.9	232.4	2 199.9	9.3	135.0		
		1979..	248.8	2 214.8	238.6	2 085.4	10.2	129.4		
		1978..	255.4	2 149.9	244.4	1 996.0	11.0	153.9		
		1977..	253.3	1 992.0	242.5	1 859.7	10.8	132.3		
		1972..	285.5	1 706.2	273.4	1 589.3	12.1	116.9		
		1967..	336.6	1 518.2	328.7	1 458.8	7.9	59.4		
		1963..	335.0	1 278.0	327.5	1 227.8	7.6	50.2		
		1958..	358.5	1 192.2	349.2	1 146.0	9.3	46.2		
		1977..	566.4	11 745.8	525.8	10 517.8	40.6	1 228.0		
		1982..	573.4	11 262.2	531.6	10 096.7	41.8	1 165.5		
		1981..	634.0	11 756.5	589.7	10 574.5	44.3	1 182.0		
		1980..	658.5	11 160.4	613.3	10 062.3	45.2	1 098.1		
		1979..	695.9	10 877.8	654.2	9 896.5	43.7	1 004.2		
1978..	688.7	10 096.1	639.3	9 076.7	49.4	1 019.4				
32	Stone, clay, and glass products -----	1977..	654.8	8 740.3	613.7	7 943.1	41.1	797.2		
		1972..	660.7	6 035.1	623.2	5 546.9	37.5	488.2		
		1967..	620.6	4 133.8	589.9	3 825.5	30.7	308.3		
		1963..	602.8	3 482.5	573.9	3 212.5	28.9	250.0		
		1958..	574.8	2 754.0	552.5	2 586.4	22.3	167.6		
		1983..	811.6	20 560.5	771.2	19 259.6	40.4	1 300.9		
		1982..	902.2	21 998.4	854.7	20 602.7	47.5	1 395.7		
		1981..	1 114.6	26 994.7	1 062.8	25 322.2	51.8	1 672.5		
		1980..	1 150.4	25 095.4	1 096.1	23 556.4	54.3	1 539.0		
		1979..	1 243.5	25 426.7	1 190.3	23 995.9	53.2	1 430.8		
		1978..	1 213.2	22 918.2	1 149.4	21 331.0	63.8	1 587.2		
		1977..	1 160.4	19 776.0	1 113.6	18 745.0	46.8	1 031.0		
		1972..	1 185.3	12 784.8	1 142.8	12 166.5	42.5	618.3		
		1967..	1 329.1	10 395.7	1 281.0	9 850.9	48.1	544.8		
		1963..	1 167.0	8 149.0	1 126.5	7 734.1	40.4	414.8		
		1958..	1 129.5	6 600.3	1 091.9	6 280.5	37.6	319.8		
33	Primary metal industries -----	1983..	1 467.0	30 293.5	1 418.0	28 823.7	49.0	1 469.8		
		1982..	1 512.1	29 721.0	1 459.7	28 282.6	51.5	1 438.4		
		1981..	1 635.8	30 341.5	1 567.6	28 531.4	68.2	1 810.1		
		1980..	1 683.7	28 355.6	1 616.8	26 700.6	66.9	1 655.0		
		1979..	1 727.6	26 925.7	1 671.0	25 609.6	56.6	1 316.1		
		1978..	1 684.5	24 566.4	1 625.1	23 382.5	59.4	1 183.9		
		1977..	1 605.8	22 022.4	1 555.7	21 035.9	50.1	986.5		
		1972..	1 533.6	14 346.0	1 493.3	13 820.6	40.3	525.4		
		1967..	1 375.1	9 670.0	1 341.8	9 319.5	33.3	350.5		
		1963..	1 110.6	6 644.0	1 082.1	6 387.5	28.5	256.5		
		1958..	1 090.3	5 634.2	1 060.5	5 425.3	29.8	208.9		
		34	Fabricated metal products -----	1983..	1 467.0	30 293.5	1 418.0	28 823.7	49.0	1 469.8
				1982..	1 512.1	29 721.0	1 459.7	28 282.6	51.5	1 438.4
				1981..	1 635.8	30 341.5	1 567.6	28 531.4	68.2	1 810.1
				1980..	1 683.7	28 355.6	1 616.8	26 700.6	66.9	1 655.0
				1979..	1 727.6	26 925.7	1 671.0	25 609.6	56.6	1 316.1
1978..	1 684.5			24 566.4	1 625.1	23 382.5	59.4	1 183.9		
1977..	1 605.8			22 022.4	1 555.7	21 035.9	50.1	986.5		
1972..	1 533.6			14 346.0	1 493.3	13 820.6	40.3	525.4		
1967..	1 375.1			9 670.0	1 341.8	9 319.5	33.3	350.5		
1963..	1 110.6			6 644.0	1 082.1	6 387.5	28.5	256.5		
1958..	1 090.3			5 634.2	1 060.5	5 425.3	29.8	208.9		

Table 1b. Manufacturing Employment: 1983 and Earlier Years—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and year	All establishments		Operating manufacturing establishments		Administrative offices and auxiliaries			
		Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)		
35	Machinery, except electrical	1983...	2 121.4	49 278.2	1 989.5	45 106.7	131.9	4 171.5	
		1982...	2 326.4	50 972.6	2 188.7	46 910.7	137.7	4 061.9	
		1981...	2 505.9	52 423.4	2 379.7	48 642.9	126.2	3 780.5	
		1980...	2 537.2	47 977.1	2 410.8	44 603.7	126.4	3 373.4	
		1979...	2 538.1	43 830.6	2 409.8	40 681.6	128.3	3 149.0	
		1978...	2 345.3	37 819.1	2 235.4	35 385.7	109.9	2 433.4	
		1977...	2 176.4	32 442.3	2 083.3	30 557.5	93.1	1 884.8	
		1972...	1 930.0	20 047.9	1 827.7	18 523.3	102.3	1 524.6	
		1967...	1 929.4	14 930.2	1 864.5	14 226.3	64.9	703.9	
		1963...	1 520.6	10 146.6	1 459.4	9 571.0	61.2	575.6	
		1958...	1 385.8	7 577.6	1 350.3	7 314.3	35.5	263.4	
		36	Electric and electronic equipment	1983...	2 079.2	47 345.6	1 895.7	41 209.1	183.5
	1982...			2 105.8	44 083.4	1 914.5	38 413.4	191.3	5 670.0
	1981...			2 143.0	41 161.7	1 959.0	35 988.9	184.0	5 172.8
1980...	2 144.8			37 065.4	1 963.2	32 453.3	181.6	4 612.1	
1979...	2 117.1			33 080.3	1 953.3	29 144.4	163.8	3 935.9	
1978...	2 021.5			29 339.9	1 863.0	25 853.9	158.5	3 486.0	
	1977...		1 863.1	25 385.1	1 723.1	22 544.2	140.0	2 640.9	
	1972...		1 800.1	17 189.4	1 661.3	15 189.0	138.8	2 000.4	
	1967...		1 980.6	14 106.5	1 874.9	12 968.0	105.7	1 138.5	
	1963...		1 612.2	10 207.1	1 511.8	9 284.3	100.4	922.9	
	1958...		1 218.6	6 323.4	1 140.8	5 755.2	77.8	568.2	
	37		Transportation equipment	1983...	1 713.7	48 377.9	1 616.0	44 640.1	97.7
1982...				1 740.3	44 519.9	1 595.9	40 811.9	108.4	3 708.0
1981...				1 867.6	46 365.9	1 749.4	42 335.6	118.2	4 030.3
1980...		1 897.2		42 700.3	1 772.1	38 877.9	125.1	3 822.4	
1979...		2 052.1		42 247.5	1 923.7	38 493.9	128.4	3 753.6	
1978...		1 991.0		38 369.9	1 865.7	34 961.6	125.3	3 408.3	
		1977...	1 873.7	33 314.4	1 768.2	30 673.5	105.5	2 640.9	
		1972...	1 815.2	21 526.6	1 719.0	19 880.0	96.2	1 646.6	
		1967...	1 935.5	16 342.4	1 834.1	15 173.7	101.4	1 168.7	
		1963...	1 689.7	12 735.6	1 601.2	11 858.2	88.6	877.4	
		1958...	1 641.9	9 793.2	1 562.4	9 185.7	79.4	607.5	
		38	Instruments and related products	1983...	668.9	15 500.6	608.1	13 473.0	60.8
1982...				682.1	14 792.7	623.6	12 882.9	58.5	1 909.8
1981...				666.7	13 011.1	611.5	11 564.6	55.2	1 446.5
1980...	664.2			11 824.5	616.4	10 672.1	47.8	1 152.4	
1979...	640.5			10 240.7	601.1	9 329.1	39.4	911.6	
1978...	644.2			9 510.1	600.1	8 570.3	44.1	939.8	
	1977...		591.9	8 212.0	559.1	7 520.4	32.8	691.6	
	1972...		480.8	4 677.9	453.2	4 286.2	27.6	391.7	
	1967...		409.6	2 980.8	394.3	2 821.6	15.3	159.2	
	1963...		316.4	2 010.4	305.5	1 912.5	11.0	98.0	
	1958...		293.8	1 564.0	286.4	1 509.5	7.4	54.5	
	39		Miscellaneous manufacturing industries	1983...	391.6	6 141.9	374.9	5 674.4	16.7
1982...				395.7	6 010.3	382.6	5 646.9	13.1	363.4
1981...				430.3	6 024.6	413.1	5 630.0	17.2	394.6
1980...		447.1		5 752.0	428.4	5 336.3	18.7	385.7	
1979...		460.9		5 352.0	443.0	5 014.0	17.9	338.0	
1978...		467.1		5 085.6	447.3	4 765.4	19.8	320.2	
		1977...	451.9	4 596.5	440.7	4 406.4	11.2	190.1	
		1972...	456.0	3 316.3	445.6	3 179.8	10.4	136.5	
		1967...	831.6	5 903.5	823.5	5 819.4	8.1	84.1	
		1963...	645.8	3 851.3	639.3	3 794.5	9.2	82.3	
		1958...	569.5	2 838.6	560.5	2 770.1	9.0	68.4	

¹Most of 1958 figures and figures for 1963, 1967, 1972, 1977, 1978, 1979, 1980, 1981, 1982, and 1983 represent data for establishments located in the conterminous United States, Alaska, and Hawaii. However, when 1958 figures were previously published they did not include data for Alaska and Hawaii since these areas did not achieve statehood until 1959. The addition of 1958 Alaska and Hawaii figures to previously published figures for major groups 26 and 29 would have resulted in a disclosure. Therefore, 1958 Alaska and Hawaii data are excluded from these major groups but are included at all industries level.

²Excludes ordnance and accessories. In 1972 SIC revision, major group 19 was eliminated as a separate major group and its industries were reclassified to major groups 34, 36, 37, and 38.

Table 2. Statistics for Industry Groups and Industries: 1983 and 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983									
		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
A	B	C	D	E	F	G	H	I	J		
	All industries	18 719.6	394 736.0	12 203.0	23 611.6	212 417.4	882 014.5	1 170 237.8	2 054 853.3	61 930.5	308 002.2
20	Food and kindred products	1 445.6	26 602.5	1 012.7	1 990.7	16 638.0	93 379.3	193 775.1	286 966.8	5 805.9	24 056.5
21	Tobacco products	54.8	1 354.9	41.9	77.5	958.1	9 781.9	6 540.7	16 341.9	648.6	7 182.8
22	Textile mill products	723.3	10 360.5	624.0	1 234.5	7 803.1	21 333.4	32 419.3	53 357.9	1 580.2	7 290.3
23	Apparel and other textile products	1 190.5	12 789.4	1 003.5	1 814.3	9 191.4	27 334.8	28 330.8	55 358.1	612.8	7 758.6
24	Lumber and wood products	628.9	9 715.2	531.4	1 018.5	7 507.8	12 530.5	32 027.3	51 304.6	1 212.7	6 490.8
25	Furniture and fixtures	443.6	6 615.2	359.3	682.4	4 564.0	14 282.2	12 427.9	26 548.5	600.6	4 403.5
26	Paper and allied products	606.7	13 842.8	461.2	937.4	9 747.4	35 611.6	49 076.3	84 587.0	4 705.1	9 212.9
27	Printing and publishing	1 300.7	24 211.7	722.6	1 339.1	12 052.5	60 062.0	33 040.8	92 834.0	3 236.9	7 594.1
28	Chemicals and allied products	850.7	21 411.2	496.0	980.7	10 867.6	86 472.4	96 893.1	183 205.5	7 082.5	24 359.3
29	Petroleum and coal products	146.3	4 409.1	95.1	200.2	2 723.3	21 043.5	170 309.0	192 570.3	4 583.0	15 058.7
30	Rubber and miscellaneous plastics products	684.4	12 305.4	527.2	1 036.4	8 229.1	29 804.7	30 312.8	60 329.4	1 766.8	7 369.8
31	Leather and leather products	188.8	2 225.1	161.9	289.9	1 613.0	4 852.6	5 005.8	9 830.9	121.5	1 551.3
32	Stone, clay, and glass products	525.8	10 517.8	408.3	811.1	7 508.8	25 326.2	23 586.8	48 708.7	1 745.7	6 936.6
33	Primary metal industries	771.2	19 259.6	585.1	1 122.2	13 642.4	35 996.6	71 323.2	108 524.3	4 361.8	22 018.2
34	Fabricated metal products	1 418.0	28 823.7	1 050.4	2 072.8	18 979.3	61 326.8	60 963.1	122 119.0	2 772.7	21 553.5
35	Machinery, except electrical	1 989.5	45 106.7	1 234.2	2 380.2	23 588.4	94 752.8	81 391.7	178 962.5	6 425.2	43 882.7
36	Electric and electronic equipment	1 895.7	41 209.1	1 187.7	2 282.4	20 370.1	92 519.8	67 223.3	159 199.1	7 260.6	31 407.9
37	Transportation equipment	1 616.0	44 640.1	1 072.1	2 152.1	26 917.4	99 642.9	144 422.1	244 079.6	5 061.0	43 490.5
38	Instruments and related products	608.1	13 473.0	348.3	670.9	6 100.1	35 258.1	18 471.8	53 598.5	1 804.2	11 192.5
39	Miscellaneous manufacturing industries	374.9	5 674.4	280.0	518.4	3 415.8	13 702.4	12 696.2	26 425.7	542.7	5 191.7
—	Auxiliaries	1 256.1	40 488.7	—	—	—	—	—	—	—	—
20	Food and kindred products	1 445.6	26 602.5	1 012.7	1 990.7	16 638.0	93 379.3	193 775.1	286 966.8	5 805.9	24 056.5
201	Meat products	308.2	4 907.5	256.9	511.6	3 733.5	11 078.9	55 402.4	66 391.9	658.2	2 037.1
2011	Meat packing plants	126.4	2 401.2	102.4	213.8	1 838.0	5 327.1	37 507.7	42 774.6	278.0	940.8
2013	Sausages and other prepared meats	65.7	1 231.9	50.1	100.3	852.6	3 072.6	9 323.5	12 365.7	157.5	642.3
2016	Poultry dressing plants	101.7	1 087.0	91.6	171.3	893.0	2 285.0	7 281.0	9 566.0	142.1	373.4
2017	Poultry and egg processing	14.5	186.6	12.8	31.6	149.7	394.3	1 290.1	1 685.3	30.6	90.5
202	Dairy products	139.1	2 657.4	80.5	163.9	1 471.6	9 099.3	31 178.0	40 218.8	600.1	1 754.6
2021	Creamery butter	2.2	43.2	1.7	3.5	29.7	131.2	1 610.8	1 736.7	4.0	55.6
2022	Cheese, natural and processed	29.8	491.1	24.2	47.0	374.4	1 957.3	8 930.7	10 907.4	147.4	765.6
2023	Condensed and evaporated milk	13.1	304.5	8.9	19.7	191.4	1 736.2	4 059.7	5 745.9	114.9	339.4
2024	Ice cream and frozen desserts	17.7	349.7	9.5	19.7	174.0	876.6	2 104.3	2 963.4	75.5	184.4
2026	Fluid milk	76.3	1 468.9	36.3	74.1	702.1	4 398.0	14 472.5	18 865.4	258.3	409.3
203	Preserved fruits and vegetables	214.3	3 437.2	177.2	336.9	2 541.3	13 182.2	18 107.0	31 313.0	786.7	6 032.5
2032	Canned specialties	24.8	443.8	20.3	40.0	337.8	1 958.4	2 410.0	4 370.1	79.1	706.1
2033	Canned fruits and vegetables	65.2	1 007.9	55.6	103.9	776.9	3 660.8	5 641.4	9 358.1	267.7	2 429.9
2034	Dehydrated fruits, vegetables, and soups	11.0	210.0	8.9	17.3	151.5	697.0	3 454.4	1 646.9	44.0	545.2
2035	Pickles, sauces, and salad dressings	22.2	383.6	17.3	33.3	269.7	2 039.6	2 672.5	4 698.4	61.8	588.4
2037	Frozen fruits and vegetables	47.3	681.2	40.9	74.4	519.4	2 393.4	3 185.7	5 560.8	176.3	1 236.9
2038	Frozen specialties	43.9	710.8	34.4	68.0	486.1	2 433.0	3 252.0	5 678.7	157.8	526.0
204	Grain mill products	105.7	2 286.5	73.4	151.0	1 502.2	11 240.9	21 867.7	33 163.2	668.6	2 261.7
2041	Flour and other grain mill products	14.7	335.4	13.9	24.2	237.3	1 198.4	4 012.1	5 228.6	64.6	354.9
2043	Cereal breakfast foods	16.3	483.0	13.3	26.7	376.3	3 069.3	1 502.0	4 571.9	176.7	255.4
2044	Rice milling	5.4	94.3	4.1	8.5	61.9	432.7	1 401.1	1 852.7	20.7	438.7
2045	Blended and prepared flour	7.1	150.4	4.9	9.5	92.4	630.2	893.2	1 538.3	78.2	105.5
2046	Wet corn milling	8.9	254.0	6.3	13.5	171.2	1 224.1	2 279.9	3 501.2	131.3	253.3
2047	Dog, cat, and other pet food	17.1	342.5	12.6	25.0	229.3	2 430.3	2 253.6	4 704.6	66.4	242.0
2048	Prepared feeds, n.e.c.	36.3	627.1	21.3	43.6	333.9	2 256.0	9 525.9	11 765.9	130.7	611.8
205	Bakery products	207.7	4 110.5	119.9	233.1	2 165.0	11 017.5	7 209.1	18 222.8	387.8	613.4
2051	Bread, cake, and related products	162.0	3 251.8	85.3	166.2	1 553.2	8 028.8	5 280.4	13 308.0	284.2	318.4
2052	Cookies and crackers	45.7	858.8	34.7	66.9	611.8	2 988.8	1 928.6	4 914.8	103.6	295.1
206	Sugar and confectionery products	94.6	1 723.5	75.5	148.7	1 243.9	6 800.9	8 639.7	16 442.2	430.2	2 463.1
2061	Raw cane sugar	7.6	141.1	6.1	13.0	106.2	478.4	837.8	1 311.6	41.9	229.7
2062	Cane sugar refining	7.6	195.1	5.8	11.8	141.4	631.3	2 512.6	3 145.1	51.9	359.1
2063	Beet sugar	7.6	155.1	6.6	14.3	124.6	530.9	1 087.1	1 584.7	27.9	448.2
2065	Confectionery products	56.0	910.0	44.9	85.1	637.0	3 497.1	3 661.8	7 174.9	225.8	892.2
2066	Chocolate and cocoa products	10.1	221.2	7.9	16.6	159.7	1 071.0	1 165.2	2 258.8	62.7	394.1
2067	Chewing gum	5.4	101.0	4.3	7.9	75.0	592.2	375.3	967.1	20.0	132.9
207	Fats and oils	35.8	756.5	25.1	53.2	478.2	3 081.7	14 260.7	17 073.0	298.2	2 108.0
2074	Cottonseed oil mills	4.1	65.2	3.3	7.4	44.7	229.9	572.9	791.4	16.9	205.6
2075	Soybean oil mills	8.1	180.6	5.6	12.1	119.9	888.1	8 362.2	9 059.8	79.5	1 293.5
2076	Vegetable oil mills, n.e.c.	1.3	24.2	1.0	2.1	16.1	134.0	543.0	659.0	58.4	108.0
2077	Animal and marine fats and oils	10.7	215.6	7.1	15.1	126.1	630.1	1 202.6	1 817.7	58.7	91.3
2079	Shortening and cooking oils	11.6	270.9	8.1	16.6	171.5	1 199.6	3 580.1	4 745.0	84.7	409.5
208	Beverages	189.3	4 352.9	92.7	185.4	2 054.0	17 995.4	22 252.0	40 181.9	1 559.7	4 288.2
2082	Malt beverages	40.7	1 302.6	28.5	55.1	892.0	5 324.6	6 443.2	11 797.5	599.8	637.7
2083	Malt	1.6	42.9	1.2	2.5	31.2	135.7	414.5	587.1	54.8	129.5
2084	Wines, brandy, and brandy spirits	11.8	257.3	6.7	12.6	131.5	1 058.2	1 711.1	2 836.6	97.7	1 050.0
2085	Distilled liquor, except brandy	11.3	261.1	6.2	16.9	184.3	1 534.7	1 839.3	3 396.7	87.2	1 208.2
2086	Bottled and canned soft drinks	112.3	2 444.8	81.5	170.1	701.5	7 090.1	10 296.7	17 380.0	680.5	885.0
2087	Flavoring extracts and syrups, n.e.c.	11.7	244.2	6.7	13.2	113.5	2 652.0	1 547.3	4 184.0	39.8	377.8
209	Miscellaneous foods and kindred products	151.0	2 370.4	111.6	206.8	1 448.3	10 082.4	13 858.6	23 960.0	466.4	2 498.0
2091	Canned and cured seafoods	12.6	199.2	10.7	19.5	151.3	620.7	1 211.5	1 836.8	20.6	411.5
2092	Fresh or frozen packaged fish	34.3	398.4	29.5	51.5	284.0	936.5	2 846.5	3 789.5	42.2	598.7
2095	Roasted coffee	11.1	265.1	6.9	13.8	155.4	2 115.0	3 710.8	5 808.5	96.1	446.9
2097	Manufactured ice	5.1	66.7	2.7	4.9	37.6	172.3	82.5	252.0	8.7	16.4
2098	Macaroni and spaghetti	8.4	149.1	5.6	11.3	91.0	583.9	1 096.2	1 096.2	44.0	106.0
2099	Food preparations, n.e.c.	79.6	1 292.0	56.1	105.9	728.9	5 654.0	5 492.9	11 176.9	254.8	918.5
21	Tobacco products	54.8	1 354.9	41.9	77.5	958.1	9 781.9	6 540.7	16 341.9	648.6	7 182.8
211	Cigarettes	38.6	1 112.1	29.2	52.3	800.6	8 624.0	3 906.0	12 610.5	570.0	5 697.8
2											

See footnotes at end of table.

1982													
All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of ind. shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)	Standard error of estimate (percent) for column ¹ —			SIC code
Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						A	F	I	
K	L	M	N	O	P	Q	R	S	T				
19 094.1	379 626.5	12 400.6	23 538.3	204 487.2	824 117.7	1 130 142.7	1 980 205.8	74 561.6	306 136.9	1	1	1	
1 487.7	26 087.5	1 046.8	2 033.4	16 439.5	88 419.1	192 216.6	280 529.3	6 726.9	23 564.2	1	1	2	20
57.9	1 323.5	45.3	83.7	957.1	8 964.8	7 099.9	16 061.4	607.3	6 109.7	1	1	1	21
717.4	9 048.1	615.5	1 158.9	6 936.2	18 550.2	28 713.4	47 515.4	1 579.0	6 551.4	1	1	3	22
1 189.0	12 128.8	1 008.7	1 803.5	8 831.9	26 060.5	27 087.8	53 387.9	654.3	7 182.8	2	1	4	23
576.4	8 444.5	479.3	893.9	6 446.1	15 376.6	27 125.5	42 934.9	1 342.4	5 718.6	1	1	5	24
436.0	6 083.7	350.5	651.2	4 189.1	12 828.9	11 228.9	24 128.7	586.2	3 997.4	1	1	6	25
605.6	12 947.5	461.2	923.0	9 040.3	33 375.7	46 620.1	79 895.1	5 098.3	8 922.7	1	1	2	26
1 291.8	22 706.9	710.9	1 313.0	11 307.4	54 423.4	31 377.2	85 796.9	3 213.2	7 039.5	1	1	4	27
872.6	20 835.7	506.6	1 003.5	10 543.8	77 314.0	92 556.9	170 736.9	9 086.8	23 830.1	1	1	2	28
151.6	4 337.7	99.6	205.2	2 612.7	22 068.5	185 191.1	208 918.6	6 578.9	17 179.5	1	1	1	29
681.7	11 596.8	522.6	996.0	7 691.1	27 218.9	27 950.0	55 415.8	2 199.2	7 200.5	1	1	4	30
199.8	2 218.5	171.3	304.1	1 623.1	4 772.9	4 917.1	9 719.2	1 320.0	1 520.9	1	2	10	31
531.5	10 096.7	408.4	796.3	7 163.6	22 985.7	22 149.3	45 180.6	2 309.0	6 710.4	1	1	1	32
854.1	20 602.7	637.7	1 166.8	14 465.8	33 291.4	68 791.4	104 666.8	4 666.1	23 857.8	1	1	1	33
1 459.7	28 282.6	1 073.3	2 070.4	18 455.9	58 927.6	59 393.8	119 444.0	3 685.8	21 138.1	1	1	3	34
2 188.7	46 910.7	1 358.0	2 596.8	25 093.1	102 269.8	83 787.8	177 895.7	8 537.2	47 181.2	1	1	2	35
1 914.5	38 413.6	1 198.2	2 288.5	19 281.0	84 605.4	63 259.1	147 943.6	7 542.4	30 004.1	1	1	1	36
1 959.9	40 811.9	1 056.6	2 051.4	24 778.8	84 932.3	120 010.5	201 346.1	7 214.4	42 282.5	1	1	1	37
623.6	12 882.9	363.3	696.0	5 917.1	33 672.2	17 875.2	51 797.6	2 103.0	10 925.1	1	1	3	38
382.6	5 646.9	280.8	522.8	3 413.6	14 059.1	12 791.2	26 891.4	629.2	5 220.4	1	1	5	39
1 276.0	38 220.3	-	-	-	-	-	-	-	-	1	1	1	-
1 487.7	26 087.5	1 046.8	2 033.4	16 439.5	88 419.1	192 216.6	280 529.3	6 726.9	23 564.2	1	1	2	20
317.7	4 902.7	264.5	518.0	3 857.4	11 002.3	56 598.2	67 602.2	696.6	1 554.7	1	1	2	201
134.4	2 549.3	108.5	220.2	1 995.9	5 824.6	39 048.6	44 853.6	290.0	891.6	1	3	2	2011
65.5	1 206.2	49.8	98.1	851.7	2 900.9	9 379.1	12 277.5	175.5	632.9	1	2	6	2013
104.4	1 079.6	94.5	176.7	886.0	1 880.0	7 137.3	9 044.6	199.5	359.9	1	2	2	2016
13.3	157.5	11.7	22.9	123.9	396.8	1 033.2	1 426.5	26.2	80.2	1	1	1	2017
139.9	2 553.1	82.8	166.9	1 420.0	8 135.6	30 473.6	38 771.3	711.3	1 720.7	2	2	7	202
2.2	40.2	1.7	3.5	28.5	135.6	1 556.1	1 686.8	8.4	54.6	1	4	13	2021
29.6	472.1	24.1	47.4	363.3	1 777.3	9 012.7	10 762.8	161.2	798.7	2	5	15	2022
12.2	258.7	8.6	18.4	167.4	1 447.6	3 296.7	4 730.7	98.8	277.8	2	2	14	2023
17.8	313.5	11.1	20.9	177.3	910.4	1 949.0	2 855.1	79.9	177.7	6	6	24	2024
78.2	1 468.7	37.4	76.8	683.6	4 689.9	14 659.1	18 736.0	363.0	411.9	2	3	10	2026
219.6	3 315.1	182.4	343.2	2 472.1	12 353.4	17 594.5	29 873.9	933.8	6 147.0	2	1	5	203
23.4	392.4	19.0	37.0	297.6	1 769.3	2 372.0	4 140.8	154.3	638.4	1	1	4	2032
70.5	1 040.1	60.7	113.6	822.4	3 552.7	5 768.1	9 283.4	264.1	2 781.0	5	2	11	2033
13.6	216.9	11.2	19.1	156.2	792.3	985.0	1 745.1	51.7	554.8	13	3	5	2034
22.0	371.5	17.4	33.3	260.8	1 736.9	2 532.7	4 268.8	67.5	582.5	2	2	11	2035
47.7	643.5	41.5	77.1	508.7	2 408.6	2 970.1	5 374.6	235.7	1 144.4	1	2	3	2037
42.4	650.7	32.6	63.1	428.5	2 093.5	2 966.5	5 061.3	160.5	446.0	2	3	5	2038
107.5	2 197.0	74.6	152.6	1 442.0	10 333.1	20 965.7	31 386.4	884.1	2 202.6	1	1	4	204
15.1	323.0	11.4	24.2	233.3	1 094.3	8 825.5	4 302.8	90.6	361.6	2	3	9	2041
15.6	435.0	12.9	25.5	340.0	2 622.8	1 475.0	4 131.9	165.4	229.2	1	1	1	2043
5.6	95.5	4.4	9.1	54.0	379.6	1 498.4	933.0	41.0	445.6	1	2	8	2044
6.8	131.2	4.8	9.0	81.0	609.2	829.3	1 419.4	28.7	114.4	4	3	4	2045
9.5	254.7	6.7	13.8	170.6	1 157.4	2 101.0	3 268.4	326.2	243.4	1	1	1	2046
17.4	340.2	12.8	25.7	225.6	2 281.4	2 136.9	4 402.2	80.8	257.9	2	2	10	2047
37.5	617.4	21.7	45.2	327.5	2 188.4	9 099.7	11 298.1	130.5	550.4	2	3	17	2048
216.5	4 050.7	124.0	241.3	2 084.8	10 650.4	7 162.9	17 808.2	490.2	564.1	1	1	5	205
170.9	3 254.3	89.0	174.5	1 522.3	7 861.1	5 282.7	13 143.3	382.4	305.7	2	1	6	2051
45.6	796.5	35.0	66.8	562.5	2 789.3	1 880.2	4 664.9	107.8	258.4	2	2	5	2052
95.7	1 660.6	77.0	150.2	1 196.5	6 234.0	9 384.7	15 575.8	470.0	2 526.3	1	1	6	206
7.5	133.8	5.8	13.1	100.5	297.7	755.8	1 113.9	89.6	237.9	1	3	10	2061
8.3	197.2	6.2	12.8	139.5	622.4	2 424.9	3 040.3	69.2	383.0	1	1	2	2062
10.3	169.4	8.8	17.3	136.4	432.2	1 102.5	1 515.8	32.8	480.5	1	1	2	2063
54.2	857.6	44.0	83.0	603.2	3 276.1	3 572.1	6 773.1	208.0	965.8	1	2	11	2065
10.1	205.7	7.9	16.2	146.4	1 006.7	1 217.1	2 217.4	53.8	356.0	1	1	3	2066
5.4	96.9	4.3	7.9	70.4	598.9	312.3	915.3	16.6	123.2	1	1	4	2067
38.7	774.3	27.4	58.0	494.0	2 785.4	13 910.6	16 751.8	290.8	1 593.7	2	2	14	207
5.2	76.2	4.3	9.7	54.5	202.9	715.0	933.3	59.6	191.8	3	6	5	2074
8.9	188.7	6.2	13.4	123.1	678.2	7 896.8	8 603.6	113.4	883.9	1	2	6	2075
1.3	22.3	.9	1.8	14.8	80.0	467.0	556.9	66.9	83.8	1	3	64	2076
10.8	215.1	7.2	15.5	127.8	562.6	1 188.5	1 752.5	56.5	81.2	4	5	19	2077
12.5	272.0	8.7	17.6	173.8	1 261.7	3 643.3	4 905.6	96.5	353.1	1	2	8	2079
194.1	4 244.1	95.3	189.5	2 000.9	16 683.6	22 163.7	38 800.7	1 627.9	4 429.5	1	1	5	208
43.0	1 307.9	29.5	57.5	883.5	4 534.8	6 669.7	11 183.2	665.0	654.7	1	1	1	2082
1.7	42.9	1.3	2.7	31.9	166.2	480.0	661.5	29.5	167.8	5	16	29	2083
11.8	245.9	6.8	12.8	125.4	996.7	1 762.9	2 785.7	136.8	1 113.9	1	3	23	2084
12.2	263.8	8.9	18.0	182.7	1 460.1	1 700.5	3 126.1	1 266.6	897.9	1	3	45	2085
113.8	2 148.4	42.4	85.2	668.3	6 856.1	9 981.3	16 807.5	649.5	887.9	1	2	7	2086
11.6	237.3	6.5	13.3	109.1	2 669.8	1 569.3	4 236.8	57.1	338.5	3	3	12	2087
158.0	2 299.8	118.8	213.8	1 471.9	10 172.2	13 962.7	23 359.0	520.3	2 415.4	1	1	6	209
13.9	194.9	12.1	21.1	150.6	613.4	1 235.3	1 849.1	20.5	495.6	8	6	3	2091
37.5	408.6	32.5	55.5	303.8	966.7	3 040.0	4 009.1	62.2	587.3	2	4	14	2092
11.8	265.7	7.4	15.0	157.1	2 070.3	3 749.0	5 826.9	80.5	413.5	2	2	14	2095
5.0	65.1	3.0	5.5	35.9	152.6	79.0	229.5	13.4	9.4	2	8	85	2097
8.4	145.0	6.0	11.9	86.7	550.9	514.6	1 065.0	48.3	88.3	2	4	35	2098
81.4	1 220.6	57.9	104.8	735.9	5 663.3	5 344.8	10 979.3	295.4	821.4	2	2	5	2099
57.9	1 323.5	45.3	83.7	957.1	8 964.8	7 099.9	16 061.4	607.3	6 109.7	1	1	1	21
41.5	1 093.7	32.2	58.5	801.0	8 098.3	4 052.3	12 126.8	(D)	4 606.3	1	1	1	211
41.5	1 093.7	32.2	58.5	801.0	8 098.3	4 052.3	12 126.8	(D)	4 606.3	1	1	1	2111
5.1	58.5	4.5	8.5	45.4	133.3	120.5	253.7	7.4	48.5	2	1	1	212
5.1	58.5	4.5	8.5	45.4	133.3	120.5	253.7	7.4	48.5	2	1	1	2121
3.1	51.6	2.4	4.4	37.4	420.5	246.8	665.4	8.3	143.9	2	3	40	213
3.1	51.6	2.4	4.4	37.4	420.5	246.8	665.4	8.3	143.9	2	3	40	2131
8.3													

Table 2. Statistics for Industry Groups and Industries: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983									
		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
A	B	C	D	E	F	G	H	I	J		
22	Textile mill products	723.3	10 060.5	624.0	1 234.5	7 803.1	21 333.4	32 419.3	53 357.9	1 580.2	7 290.3
221	Weaving mills, cotton	71.6	1 020.9	65.2	128.6	882.9	1 870.6	2 540.1	4 391.6	212.8	709.6
2211	Weaving mills, cotton	71.6	1 020.9	65.2	128.6	882.9	1 870.6	2 540.1	4 391.6	212.8	709.6
222	Weaving mills, synthetics	137.2	2 023.6	120.4	243.0	1 641.1	3 940.6	5 391.3	9 285.0	380.4	1 248.0
2221	Weaving mills, manmade fiber and silk	137.2	2 023.6	120.4	243.0	1 641.1	3 940.6	5 391.3	9 285.0	380.4	1 248.0
223	Weaving and finishing mills, wool	13.6	197.8	11.8	24.8	153.3	402.7	477.2	879.3	20.4	162.9
2231	Weaving and finishing mills, wool	13.6	197.8	11.8	24.8	153.3	402.7	477.2	879.3	20.4	162.9
224	Narrow fabric mills	16.9	227.3	14.5	28.6	170.1	509.0	414.8	918.9	18.8	158.2
2241	Narrow fabric mills	16.9	227.3	14.5	28.6	170.1	509.0	414.8	918.9	18.8	158.2
225	Knitting mills	214.5	2 610.9	185.2	350.5	1 980.7	5 597.8	6 421.1	11 883.1	224.4	1 723.9
2251	Women's hosiery, except socks	30.8	354.5	27.5	53.2	278.8	903.0	677.3	1 566.9	26.2	181.5
2252	Hosiery, n.e.c.	33.6	374.5	30.4	56.0	298.0	771.5	876.8	1 616.5	26.2	251.4
2253	Knit outerwear mills	74.5	862.3	63.4	114.5	636.2	1 842.6	1 609.7	3 410.0	63.8	500.6
2254	Knit underwear mills	20.6	226.4	18.2	33.4	187.5	449.3	383.1	824.3	11.6	175.4
2257	Circular knit fabric mills	31.2	432.1	25.7	53.0	316.1	876.7	1 715.6	2 570.6	53.2	271.4
2258	Warp knit fabric mills	20.8	322.9	17.1	35.2	234.8	688.1	1 091.0	1 761.6	40.1	210.2
2259	Knitting mills, n.e.c.	3.0	38.1	2.9	5.2	29.5	65.9	67.5	133.2	3.0	29.4
226	Textile finishing, except wool	58.6	328.6	47.8	98.5	683.5	1 898.9	3 756.3	5 641.7	145.8	614.5
2261	Finishing plants, cotton	11.6	171.8	9.5	19.3	129.5	308.2	560.7	867.4	24.2	103.1
2262	Finishing plants, manmade	34.5	578.1	27.3	58.6	424.6	1 191.2	2 417.2	3 609.9	106.7	385.9
2269	Finishing plants, n.e.c.	12.6	178.7	10.3	20.6	129.5	399.6	778.4	1 164.5	14.8	125.4
227	Floor covering mills	44.3	691.2	35.2	72.0	468.2	2 177.2	4 918.8	6 967.3	84.3	983.9
2271	Woven carpets and rugs	2.9	38.1	2.5	4.9	30.4	80.1	120.2	204.8	1.6	42.4
2272	Tufted carpets and rugs	39.8	634.0	31.4	64.7	425.3	2 064.5	4 742.7	6 674.9	82.2	926.0
2279	Carpets and rugs, n.e.c.	1.6	19.1	1.3	2.4	12.5	32.6	55.8	88.2	5	14.4
228	Yarn and thread mills	111.4	1 472.7	100.4	201.4	1 215.8	2 816.1	5 411.4	8 180.2	305.0	910.7
2281	Yarn mills, except wool	72.9	981.3	66.9	136.0	836.0	1 802.3	3 229.9	5 012.9	223.2	537.2
2282	Throwing and winding mills	25.5	326.3	22.5	44.8	257.2	675.1	1 667.3	2 324.5	52.5	216.7
2283	Wool yarn mills	3.6	46.4	3.1	5.8	33.2	72.5	156.7	227.2	2.8	29.0
2284	Thread mills	9.5	118.7	8.0	14.8	89.4	266.2	357.6	615.5	26.5	127.8
229	Miscellaneous textile goods	55.2	887.6	43.5	86.1	607.4	2 120.5	3 088.3	5 210.2	188.3	779.6
2291	Felt goods, except woven felts and hats	3.2	64.5	2.4	4.9	39.3	164.2	105.3	266.4	11.8	59.8
2292	Lace goods	2.2	27.8	1.4	3.4	21.8	52.1	30.6	78.2	3	18.9
2293	Paddings and upholstery filling	4.0	63.8	3.3	6.8	44.6	134.6	160.3	290.5	6.0	28.5
2294	Processed textile waste	3.1	40.4	2.5	4.9	27.4	89.7	254.6	333.6	2.5	72.3
2295	Coated fabrics, not rubberized	10.7	205.8	7.7	15.3	126.7	435.6	685.9	1 129.8	25.9	182.0
2296	Tire cord and fabric	6.4	100.5	5.5	10.1	78.6	316.9	737.7	1 063.7	9.1	118.2
2297	Nonwoven fabrics	12.3	211.1	9.4	19.5	147.5	591.2	748.3	1 338.8	111.4	166.9
2298	Cordage and twine	7.2	93.6	5.7	10.6	52.9	200.4	206.5	412.9	15.8	92.7
2299	Textile goods, n.e.c.	6.0	80.2	5.1	10.6	58.7	135.9	159.1	296.3	5.7	40.6
23	Apparel and other textile products	1 190.5	12 789.4	1 003.5	1 814.3	9 191.4	27 334.8	28 330.8	55 358.1	612.8	7 758.8
231	Men's and boys' suits and coats	70.8	849.6	60.4	108.9	647.4	1 674.1	1 376.0	3 045.7	28.4	561.2
2311	Men's and boys' suits and coats	70.8	849.6	60.4	108.9	647.4	1 674.1	1 376.0	3 045.7	28.4	561.2
232	Men's and boys' furnishings	302.0	3 010.6	254.9	458.6	2 193.1	7 099.2	6 356.3	13 377.5	156.2	1 956.6
2321	Men's and boys' shirts and nightwear	88.3	854.3	74.7	134.3	642.0	1 851.0	1 725.0	3 573.4	38.7	498.2
2322	Men's and boys' underwear	10.3	97.4	9.2	16.1	82.2	242.8	228.7	484.9	1.4	52.7
2323	Men's and boys' neckwear	7.1	110.4	5.7	9.4	72.8	217.1	134.5	355.5	7.3	32.9
2327	Men's and boys' separate trousers	59.1	615.4	48.7	89.8	432.6	1 159.5	1 277.9	2 407.8	34.1	358.2
2328	Men's and boys' work clothing	89.0	859.6	77.2	138.0	647.2	2 674.5	2 348.5	4 960.5	46.8	706.3
2329	Men's and boys' clothing, n.e.c.	48.2	473.6	39.5	71.0	316.3	954.3	641.8	1 595.4	28.0	308.6
233	Women's and misses' outerwear	426.3	4 455.4	361.8	646.7	3 149.7	8 665.1	9 597.0	18 208.0	154.9	1 966.9
2331	Women's and misses' blouses	93.1	921.2	79.3	141.8	655.1	1 774.2	2 030.9	3 804.1	40.2	363.6
2335	Women's and misses' dresses	148.6	1 543.0	129.6	225.0	1 165.2	2 548.3	2 328.0	4 858.9	34.8	435.1
2337	Women's and misses' suits and coats	76.4	881.3	62.1	117.8	587.0	1 976.9	2 745.2	4 697.5	28.0	564.5
2339	Women's and misses' outerwear, n.e.c.	108.2	1 109.9	90.8	162.2	742.4	2 365.7	2 493.0	4 847.5	51.9	603.7
234	Women's and children's undergarments	80.4	828.9	68.4	124.4	600.4	1 794.0	1 728.8	3 505.1	39.0	618.8
2341	Women's and children's underwear	66.7	677.4	57.2	105.1	506.3	1 359.7	1 373.0	2 734.5	34.2	457.1
2342	Brassieres and allied garments	13.7	151.5	11.1	19.3	94.1	434.4	355.7	770.2	4.8	161.8
235	Hats, caps, and millinery	15.4	158.4	13.9	24.5	118.4	298.9	238.8	529.3	(S)	126.7
2351	Millinery	7.1	24.4	2.1	3.8	17.9	49.2	44.2	89.9	(S)	(S)
2352	Hats and caps, except millinery	13.1	134.0	11.8	20.6	100.6	249.7	194.6	439.4	10.7	109.5
236	Children's outerwear	69.2	655.7	58.2	104.3	456.6	1 469.7	1 236.6	2 680.2	(S)	370.3
2361	Children's dresses and blouses	36.0	342.1	30.9	54.9	233.4	762.9	673.1	1 400.9	7.6	186.4
2363	Children's coats and suits	5.8	47.6	4.8	8.7	33.1	133.3	76.0	211.0	(S)	(S)
2369	Children's outerwear, n.e.c.	27.4	266.0	22.5	40.6	190.1	573.6	487.5	1 068.4	14.6	155.7
237	Fur goods	3.4	63.5	2.6	5.7	42.3	156.4	283.4	444.5	1.1	74.6
2371	Fur goods	3.4	63.5	2.6	5.7	42.3	156.4	283.4	444.5	1.1	74.6
238	Miscellaneous apparel and accessories	47.3	516.3	39.2	70.7	355.7	1 101.2	1 026.9	2 125.8	18.1	363.0
2381	Fabric dress and work gloves	6.9	61.3	6.1	9.5	47.6	126.7	103.3	229.9	3.1	51.1
2384	Robes and dressing gowns	8.1	85.1	6.7	12.3	58.1	163.4	216.0	381.4	2.8	65.4
2385	Waterproof outer garments	9.0	95.1	7.7	13.6	71.4	247.2	213.7	449.5	3.7	63.5
2386	Leather and sheep lined clothing	3.5	47.4	3.0	5.4	35.1	91.8	118.3	212.8	4	39.7
2387	Apparel belts	11.1	138.2	8.7	17.1	81.4	318.2	245.3	568.8	6.9	92.5
2389	Apparel and accessories, n.e.c.	8.8	89.1	7.0	12.8	62.1	153.9	130.2	283.5	1.2	50.9
239	Miscellaneous fabricated textile products	175.7	2 250.9	144.1	270.5	1 627.9	5 076.2	6 487.0	11 441.9	181.4	1 720.5
2391	Curtains and draperies	24.0	232.5	19.8	34.4	168.2	462.0	644.8	1 098.0	4.0	166.6
2392	House furnishings, n.e.c.	46.8	503.8	37.8	76.9	356.4	1 307.4	2 223.5	3 440.6	25.0	639.4
2393	Textile bags	8.2	94.6	7.0	13.0	67.3	175.4	276.3	455.7	5.3	77.0
2394	Canvas and related products	15.2	197.1	11.8	22.5	126.5	391.8	409.7	791.9	12.6	146.7
2395	Pleating and stitching	20.8	207.4	17.3	29.2	152.2	474.8	462.0	933.4	7.9	154.1
2396	Automotive and apparel trimmings	27.8	600.1	23.3	44.2	472.6	1 335.3	1 397.3	2 723.0	42.9	275.2
2397	Schiffli machine embroideries	6.8	90.4	5.6	10.8	67.0	170.9	98.6	268.5	3.0	27.9
2399	Fabricated textile products, n.e.c.	26.0	325.1	21.4	39.4	217.7	758.6	974.8	1 730.9	80.7	233.7

See footnotes at end of table.

1982										Standard error of estimate (percent) for column ¹ —			SIC code
All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expendi- tures (million dollars)	End-of-year inventories (million dollars)				
Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						A	F	I	
K	L	M	N	O	P	Q	R	S	T				
717.4	9 046.1	615.5	1 158.9	6 936.4	18 550.2	28 713.4	47 515.4	1 579.1	6 551.4	1	1	3	22
76.9	964.6	69.2	127.0	818.2	1 637.5	2 293.7	3 972.0	290.6	699.2	1	1	2	221
76.9	964.6	69.2	127.0	818.2	1 637.5	2 293.7	3 972.0	290.6	699.2	1	1	2	2211
140.8	1 815.2	123.0	230.5	1 446.6	3 488.6	4 647.1	8 191.2	385.3	1 142.1	1	1	4	222
140.8	1 815.2	123.0	230.5	1 446.6	3 488.6	4 647.1	8 191.2	385.3	1 142.1	1	1	4	2221
13.1	175.8	11.3	22.8	136.5	349.4	394.2	762.8	27.7	150.6	1	2	2	223
13.1	175.8	11.3	22.8	136.5	349.4	394.2	762.8	27.7	150.6	1	2	2	2231
17.5	215.5	15.2	28.5	158.9	464.7	388.3	851.8	22.3	137.2	3	4	16	224
17.5	215.5	15.2	28.5	158.9	464.7	388.3	851.8	22.3	137.2	3	4	16	2241
204.8	2 927.2	174.8	323.5	1 753.1	4 985.4	5 946.1	10 986.1	234.5	1 524.5	2	2	5	225
30.2	311.1	26.7	49.6	241.5	777.4	636.8	1 411.3	26.0	159.9	1	3	10	2251
32.6	326.5	28.8	51.2	258.1	617.3	832.2	1 443.4	31.4	199.2	4	5	12	2252
66.8	741.4	55.9	102.0	539.8	1 704.8	1 476.8	3 182.4	53.5	533.4	3	2	9	2253
22.3	232.3	20.0	35.3	191.7	446.2	369.7	829.9	9.9	167.4	2	7	10	2254
31.1	420.9	25.7	50.9	309.1	850.4	1 669.0	2 538.8	68.8	254.8	1	2	7	2257
19.0	261.1	15.2	29.7	187.2	533.9	904.0	1 465.8	44.0	182.4	4	3	12	2258
2.9	33.8	2.5	4.7	25.7	55.4	57.5	114.5	1.5	27.3	3	11	61	2259
58.1	834.0	47.4	93.7	607.4	1 590.3	3 351.0	4 971.9	118.1	552.3	2	3	8	226
11.6	161.8	9.6	18.2	121.2	256.1	492.6	753.8	24.0	84.6	1	7	7	2261
34.4	514.8	27.8	55.7	375.0	999.0	2 173.3	3 186.2	71.4	359.2	2	5	10	2262
12.0	157.3	10.0	19.7	111.2	335.1	685.1	1 031.9	83.9	108.5	3	4	29	2269
41.9	603.1	32.9	65.0	396.4	1 711.7	4 089.2	5 807.8	82.9	799.1	1	3	3	227
3.1	38.4	2.7	5.1	30.6	83.0	127.1	217.7	2.9	44.1	5	9	1	2271
36.1	525.2	28.2	56.0	340.2	1 585.0	3 857.5	5 440.4	77.2	730.5	1	3	3	2272
2.6	39.5	2.0	3.9	25.6	43.7	104.6	149.7	1.6	24.5	8	12	36	2279
109.6	1 277.8	87.7	183.3	1 054.7	2 318.2	4 674.0	7 036.4	230.9	791.2	2	2	9	228
72.6	850.8	66.4	124.5	723.7	1 507.5	2 795.9	4 327.6	153.7	495.5	3	2	12	2281
22.6	273.0	19.8	37.7	212.3	527.4	1 399.6	1 944.7	59.0	157.8	2	2	2	2282
3.4	40.7	3.1	6.0	32.4	67.8	117.7	185.3	2.9	22.5	3	10	19	2283
9.8	113.2	8.4	15.3	86.3	215.5	360.8	578.8	15.3	115.3	3	5	14	2284
55.8	932.9	44.0	84.5	564.6	2 004.5	2 929.7	4 935.4	178.2	755.2	1	1	6	229
3.6	66.3	2.7	5.2	40.8	149.6	99.9	249.7	26.7	57.1	3	3	45	2291
2.1	25.3	1.8	3.3	20.1	46.5	25.5	72.2	.9	13.7	1	1	43	2292
4.4	59.9	3.6	7.2	41.6	129.2	151.4	284.4	4.6	25.0	3	4	20	2293
3.2	40.4	2.6	5.0	27.3	98.2	200.8	296.9	6.7	60.9	3	2	7	2294
11.0	198.5	8.0	15.7	120.8	435.2	676.2	1 115.0	28.4	177.3	4	5	4	2295
6.5	90.5	5.6	9.6	69.7	289.9	687.9	981.5	6.2	123.8	1	1	1	2296
12.3	198.8	8.5	16.7	136.2	544.4	743.4	1 278.7	78.7	167.0	2	2	8	2297
6.6	77.0	5.2	9.4	51.7	181.5	178.7	358.7	17.0	89.6	2	2	10	2298
6.1	76.2	5.1	10.4	56.4	130.0	165.7	298.2	9.0	40.9	2	2	38	2299
1 189.0	12 128.8	1 009.7	1 803.5	8 831.9	26 060.5	27 087.8	53 387.9	654.3	7 182.8	2	1	4	23
75.2	878.2	65.0	116.9	658.9	1 683.0	1 397.5	3 061.5	24.6	578.2	2	1	3	231
75.2	878.2	65.0	116.9	658.9	1 683.0	1 397.5	3 061.5	24.6	578.2	2	1	3	2311
298.9	2 836.6	258.8	449.9	2 137.5	6 621.2	5 997.8	12 727.1	157.5	1 808.4	2	2	8	232
88.7	819.0	76.0	132.9	614.0	1 785.5	1 676.0	3 477.7	37.2	476.0	2	2	12	2321
11.0	99.1	10.0	16.8	82.0	210.2	206.7	429.4	4.9	67.3	1	1	1	2322
6.7	82.2	5.3	9.0	49.5	183.8	149.2	335.0	35.7	41.5	6	11	45	2323
56.9	564.9	48.4	87.3	426.9	1 111.2	1 052.5	2 165.4	35.7	302.7	4	8	8	2327
41.6	838.7	79.6	136.4	642.1	2 398.2	2 168.2	4 661.2	58.1	616.6	2	1	2	2328
44.6	432.8	38.6	68.5	323.0	931.3	745.3	1 658.3	18.3	304.4	4	9	33	2329
418.9	4 110.4	355.8	640.5	2 928.2	8 576.1	9 575.3	18 224.5	213.2	1 804.6	5	2	8	233
92.2	874.7	79.3	140.9	623.2	1 837.8	2 032.2	3 884.2	29.4	354.5	3	6	20	2331
137.9	1 268.3	120.0	210.7	960.9	2 413.2	2 210.7	4 623.3	68.1	389.6	5	10	10	2335
76.2	871.1	63.2	125.8	579.0	2 037.1	2 772.6	4 886.7	30.5	499.7	19	2	13	2337
110.7	1 096.3	93.2	163.1	765.0	2 257.9	2 559.8	4 830.4	85.2	560.8	3	2	13	2339
81.6	783.1	68.7	123.6	567.4	1 721.5	1 581.9	3 322.7	37.9	548.7	3	2	20	234
67.8	640.8	57.4	104.0	478.1	1 350.8	1 247.5	2 602.4	30.4	407.0	3	3	23	2341
13.8	142.3	11.3	19.5	89.3	370.8	334.5	720.3	7.5	141.7	2	2	14	2342
15.7	156.8	13.9	24.4	117.6	285.3	238.1	522.3	5.9	129.7	3	5	12	235
2.5	24.5	2.2	4.0	17.9	40.6	49.6	89.9	.4	15.1	9	17	1	2351
13.2	132.2	11.8	20.4	99.7	244.7	186.3	432.4	7.7	114.6	3	4	12	2352
71.3	671.2	61.0	109.0	492.4	1 445.8	1 257.4	2 711.4	30.1	354.5	2	3	6	236
37.7	357.3	32.4	57.5	259.7	745.9	667.6	1 417.7	11.6	165.9	3	5	15	2361
6.1	51.1	5.3	9.5	40.1	102.1	87.6	191.3	1.4	28.7	14	14	1	2363
27.6	262.8	23.3	42.0	192.6	597.8	502.2	1 102.4	17.1	159.9	2	3	5	2369
3.4	59.6	2.5	4.5	41.2	131.6	287.2	419.3	(D)	74.5	3	8	71	237
3.4	59.6	2.5	4.5	41.2	131.6	287.2	419.3	(D)	74.5	3	8	71	2371
50.0	512.5	42.1	74.1	357.9	1 097.5	1 009.4	2 118.2	24.7	331.2	3	4	19	238
6.8	51.2	6.1	9.2	41.6	104.7	98.9	208.4	3.4	40.9	3	2	13	2381
9.3	88.0	8.1	14.8	64.4	193.1	205.6	403.6	3.9	56.0	8	18	11	2384
9.3	101.1	8.0	13.9	74.5	246.0	205.8	449.2	4.6	51.8	8	5	11	2385
4.3	48.9	3.6	6.4	36.4	95.7	122.9	221.3	9	40.2	17	9	65	2386
11.7	137.1	9.2	17.2	81.5	305.4	250.6	556.5	8.3	92.8	3	4	48	2387
8.7	86.2	7.1	12.6	59.5	152.7	125.6	279.2	3.6	49.5	1	2	1	2389
173.8	2 120.3	141.8	260.5	1 530.8	4 498.4	5 745.3	10 280.8	157.8	1 552.9	2	2	4	239
24.1	233.7	19.7	33.8	170.5	442.1	614.9	1 062.0	6.3	159.7	5	8	10	2391
49.3	518.2	39.8	77.6	369.0	1 249.0	1 994.3	3 262.2	38.8	581.5	3	3	23	2392
7.7	89.5	6.5	12.2	64.8	167.8	252.7	421.8	5.9	73.0	2	6	12	2393
14.8	181.2	11.3	21.1	117.8	367.7	384.5	752.3	17.8	131.9	3	4	8	2394
19.8	204.5	16.4	29.0	150.3	452.6	420.5	873.1	17.0	138.8	4	5	20	2395
26.2	505.2	21.8	38.8	387.6	1 000.4	1 120.3	2 130.2	41.1	221.4	2	2	5	2396
7.0	97.4	5.8	11.2	73.4	188.9	116.4	303.3	7.4	29.7	3	14	27	2697
25.1	290.7	20.5	36.8	197.7	629.9	841.7	1 475.9	23.5	216.9	3	4	3	2399

Table 2. Statistics for Industry Groups and Industries: 1983 and 1982--Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983									
		All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expendi- tures (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
24	Lumber and wood products	628.9	9 715.2	531.4	1 018.5	7 507.8	19 530.5	32 027.3	51 304.6	1 212.7	6 490.8
241	Logging camps and logging contractors	83.5	1 310.8	73.0	129.2	1 103.0	2 780.9	5 916.6	8 731.0	237.0	810.6
2411	Logging camps and logging contractors	83.5	1 310.8	73.0	129.2	1 103.0	2 780.9	5 916.6	8 731.0	237.0	810.6
242	Sawmills and planing mills	168.2	2 635.9	147.4	288.4	2 171.0	5 207.1	8 808.3	13 856.5	398.8	2 211.1
2421	Sawmills and planing mills, general	142.8	2 333.6	125.0	244.9	1 925.4	4 619.5	8 184.3	12 663.9	370.2	1 976.9
2426	Hardwood dimension and flooring	23.6	275.2	20.9	40.4	220.8	522.7	553.2	1 053.8	25.0	200.3
2429	Special product sawmills, n.e.c.	1.7	27.2	1.5	3.1	24.8	64.9	70.8	138.9	3.6	33.9
243	Millwork, plywood, and structural members	190.2	3 097.7	158.5	314.2	2 374.5	6 008.2	8 946.0	14 844.1	297.1	1 916.5
2431	Millwork	67.9	1 125.6	54.7	106.5	819.4	2 268.7	3 437.6	5 627.3	103.1	930.6
2434	Wood kitchen cabinets	49.5	678.4	40.7	79.0	506.9	1 421.9	1 067.8	2 482.7	52.5	337.0
2435	Hardwood veneer and plywood	19.3	271.2	16.5	32.7	202.7	553.8	978.6	1 537.1	17.3	223.0
2436	Softwood veneer and plywood	38.1	785.9	34.4	72.4	681.1	1 333.9	2 747.7	4 062.7	86.5	294.3
2439	Structural wood members, n.e.c.	15.4	236.6	12.3	25.7	164.5	430.0	714.4	1 134.4	37.8	131.7
244	Wood containers	36.8	407.2	31.5	57.6	296.7	697.7	981.7	1 695.8	50.8	197.9
2441	Nailed wood boxes and shooks	7.1	84.6	6.0	10.6	58.1	153.9	184.8	334.8	12.5	37.8
2448	Wood pallets and skids	22.5	237.0	19.3	34.4	170.4	412.4	627.1	1 051.8	34.3	103.0
2449	Wood containers, n.e.c.	7.1	85.7	6.2	12.6	68.1	131.4	169.8	309.2	4.0	57.0
245	Wood buildings and mobile homes	70.1	1 111.7	55.3	105.6	754.9	2 206.8	4 134.7	6 317.4	95.8	436.8
2451	Mobile homes	51.9	820.8	42.7	82.1	596.0	1 582.7	3 219.1	4 785.2	75.5	242.2
2452	Prefabricated wood buildings	18.2	290.9	12.6	23.6	158.8	624.1	915.6	1 532.2	20.2	194.6
249	Miscellaneous wood products	80.2	1 151.8	65.6	123.4	807.8	2 629.8	3 239.9	5 859.7	133.2	917.9
2491	Wood preserving	10.2	155.7	8.1	15.7	108.3	334.3	1 031.7	1 378.4	23.8	298.9
2492	Particleboard	5.9	120.9	4.9	10.0	92.9	276.4	409.8	695.3	24.5	44.5
2499	Wood products, n.e.c.	64.1	875.1	52.7	97.7	606.7	2 019.1	1 798.4	3 786.0	84.9	574.5
25	Furniture and fixtures	443.6	6 615.2	359.3	682.4	4 564.0	14 282.2	12 427.9	26 548.5	600.6	4 403.5
251	Household furniture	266.1	3 453.1	226.4	427.9	2 552.1	7 197.7	7 043.7	14 191.5	249.6	2 352.0
2511	Wood household furniture	125.7	1 532.0	109.7	208.0	1 185.8	3 668.5	2 640.2	5 702.4	111.5	1 250.4
2512	Upholstered household furniture	72.5	944.9	62.6	115.1	730.3	1 990.8	2 006.6	3 989.7	61.5	469.4
2514	Metal household furniture	28.3	391.2	23.0	45.2	255.1	836.4	854.9	1 701.0	23.1	300.9
2515	Mattresses and bedsprings	25.6	387.2	19.2	37.3	232.4	907.3	1 127.4	2 026.1	34.7	233.0
2517	Wood TV and radio cabinets	6.2	83.1	5.4	10.0	62.6	155.5	155.8	310.3	6.3	33.4
2519	Household furniture, n.e.c.	7.7	114.7	6.5	12.2	85.9	219.1	258.8	462.0	12.4	64.8
252	Office furniture	59.9	1 140.5	45.0	86.4	731.2	2 786.0	1 787.3	4 517.2	231.9	698.5
2521	Wood office furniture	20.8	324.0	16.6	32.6	212.1	712.6	473.4	1 166.6	47.0	224.8
2522	Metal office furniture	39.1	816.5	28.4	53.8	519.1	2 073.4	1 313.9	3 350.5	185.0	473.7
253	Public building and related furniture	19.1	318.8	14.0	26.9	190.3	609.4	586.8	1 197.8	25.4	222.3
2531	Public building and related furniture	19.1	318.8	14.0	26.9	190.3	609.4	586.8	1 197.8	25.4	222.3
254	Partitions and fixtures	60.2	1 070.9	45.5	84.7	696.7	2 190.7	1 669.2	3 852.0	57.2	623.1
2541	Wood partitions and fixtures	31.5	560.9	24.2	43.7	384.8	1 100.3	753.5	1 851.2	24.7	255.8
2542	Metal partitions and fixtures	28.7	510.0	21.3	41.0	311.9	1 090.4	915.7	2 000.9	32.5	367.3
259	Miscellaneous furniture and fixtures	38.4	631.9	28.4	56.6	393.7	1 498.4	1 340.8	2 790.0	36.4	507.7
2591	Drapery hardware and blinds and shades	16.8	257.5	12.5	24.1	163.1	712.4	649.2	1 332.1	18.7	260.8
2599	Furniture and fixtures, n.e.c.	21.6	374.4	15.9	32.5	230.6	785.9	691.6	1 457.9	17.8	246.8
26	Paper and allied products	606.7	13 842.8	461.2	937.4	9 747.4	35 611.6	49 076.3	84 587.0	4 705.1	9 212.9
261	Pulp mills	17.4	524.1	13.3	26.7	387.5	1 239.4	2 003.8	3 261.4	751.5	422.7
2611	Pulp mills	17.4	524.1	13.3	26.7	387.5	1 239.4	2 003.8	3 261.4	751.5	422.7
262	Paper mills, except building paper	128.6	3 703.5	100.0	210.5	2 790.1	9 701.6	12 552.1	22 284.0	2 121.3	2 236.0
2621	Paper mills, except building paper	128.6	3 703.5	100.0	210.5	2 790.1	9 701.6	12 552.1	22 284.0	2 121.3	2 236.0
263	Paperboard mills	53.6	1 558.7	41.4	87.0	1 174.8	3 985.7	6 098.4	10 099.9	527.3	738.6
2631	Paperboard mills	53.6	1 558.7	41.4	87.0	1 174.8	3 985.7	6 098.4	10 099.9	527.3	738.6
264	Miscellaneous converted paper products	213.9	4 180.0	161.5	321.0	2 828.2	12 556.2	15 544.0	27 970.6	819.9	3 318.9
2641	Paper coating and glazing	41.0	906.8	27.4	57.4	546.8	2 439.0	3 298.8	5 703.2	176.9	755.9
2642	Envelopes	24.8	464.7	19.3	38.6	305.4	907.0	999.5	1 888.1	32.6	239.3
2643	Bags, except textile bags	50.3	903.4	39.9	80.4	635.4	2 151.1	3 166.0	5 292.8	150.4	801.4
2645	Die-cut paper and board	16.3	271.3	13.1	24.7	185.9	813.3	1 088.3	1 897.8	30.4	207.3
2646	Pressed and molded pulp goods	2.7	60.3	2.2	4.5	46.6	122.0	88.2	211.9	4.9	21.1
2647	Sanitary paper products	36.7	900.4	28.4	56.9	673.0	4 332.7	4 925.5	9 239.7	372.6	646.1
2648	Stationery products	13.1	209.9	9.9	18.4	140.1	481.2	665.0	1 132.2	20.8	199.0
2649	Converted paper products, n.e.c.	29.0	463.2	21.3	40.1	295.0	1 309.9	1 312.7	2 604.9	31.3	448.6
265	Paperboard containers and boxes	189.4	3 794.9	141.9	285.9	2 502.3	7 946.3	12 636.4	20 546.8	470.0	2 454.1
2651	Folding paperboard boxes	42.6	874.3	33.7	68.3	614.8	1 716.1	2 281.0	3 966.7	94.3	654.7
2652	Set-up paperboard boxes	12.3	162.6	10.5	20.1	114.3	323.1	244.9	568.6	14.1	70.0
2653	Corrugated and solid fiber boxes	96.9	2 038.1	68.9	139.7	1 264.1	3 974.8	7 450.5	11 410.7	248.1	1 135.2
2654	Sanitary food containers	23.6	444.0	17.5	35.3	305.4	1 304.1	1 664.2	2 973.3	78.5	437.5
2655	Fiber cans, drums, and similar products	14.1	275.8	11.4	22.5	203.6	628.2	995.8	1 627.5	35.0	156.6
266	Building paper and board mills	3.8	81.6	3.1	6.3	64.5	182.4	241.6	424.3	15.1	42.8
2661	Building paper and board mills	3.8	81.6	3.1	6.3	64.5	182.4	241.6	424.3	15.1	42.8

See footnotes at end of table.

1982											Standard error of estimate (percent) for column ¹ —			SIC code
All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expendi- tures (million dollars)	End-of-year inventories (million dollars)					
Number (1,000)	Payroll (million dollars)	Numbr (1,000)	Hours (millions)	Wages (million dollars)										
K	L	M	N	O	P	Q	R	S	T	A	F	I		
576.4	8 444.5	479.3	893.9	6 446.1	15 376.5	27 125.5	42 934.9	1 342.4	5 718.6	1	1	5	24	
80.8	1 207.9	69.1	121.3	1 003.7	2 501.9	5 630.2	8 274.0	249.0	747.2	2	3	13	241	
80.8	1 207.9	69.1	121.3	1 003.7	2 501.9	5 630.2	8 274.0	249.0	747.2	2	3	13	2411	
157.7	2 305.9	136.6	257.3	1 877.1	3 747.9	7 231.3	11 132.4	435.6	1 934.9	2	3	9	242	
131.9	2 020.2	113.9	215.5	1 651.7	3 237.5	6 674.2	10 065.2	408.4	1 734.1	2	3	9	2421	
22.9	252.6	20.1	37.8	199.3	445.4	465.6	912.6	24.3	168.3	4	4	21	2426	
3.0	33.1	2.7	4.0	26.1	65.0	91.5	154.6	2.9	32.6	60	20	78	2429	
165.3	2 596.1	134.8	260.6	1 959.6	4 460.4	7 134.5	11 682.8	261.7	1 575.1	2	2	7	243	
56.8	895.4	44.7	83.5	645.6	1 712.6	2 502.0	4 248.3	79.9	731.2	2	2	11	2431	
43.6	606.9	34.6	67.1	442.5	1 144.3	906.8	2 060.7	43.8	287.3	3	3	12	2434	
17.8	241.0	15.1	28.5	177.0	441.3	844.9	1 304.4	22.2	194.0	2	5	6	2435	
34.9	667.3	31.1	63.7	568.6	831.5	2 363.9	3 221.5	99.7	263.3	2	2	6	2436	
12.2	185.5	9.3	17.8	126.0	330.5	516.8	847.9	16.1	99.3	5	6	33	2439	
35.8	390.9	30.3	54.6	286.8	703.0	924.6	1 634.9	40.0	191.4	2	3	22	244	
6.4	76.5	5.3	9.4	56.0	137.9	166.7	306.8	6.9	29.9	5	7	50	2441	
22.1	230.4	18.4	32.7	165.0	420.5	589.1	1 012.3	29.4	104.3	2	4	26	2448	
7.4	84.0	6.5	12.5	65.9	144.6	168.8	315.8	3.7	57.2	7	7	28	2449	
59.6	880.1	46.0	84.7	573.5	1 740.8	3 204.2	4 955.4	65.1	369.6	6	2	11	245	
42.8	622.4	34.6	63.9	430.3	1 187.4	2 410.1	3 606.4	47.7	194.5	1	2	14	2451	
16.8	257.8	11.4	20.8	143.2	553.4	794.0	1 349.0	17.4	175.1	2	5	10	2452	
77.1	1 063.5	62.5	115.4	745.3	2 222.6	3 000.7	5 255.4	291.1	900.5	3	2	6	249	
10.9	159.4	8.6	16.5	108.2	383.7	978.5	1 360.2	35.9	315.3	3	4	12	2491	
5.6	104.5	4.5	8.9	77.8	193.3	344.4	547.4	112.9	43.7	2	4	11	2492	
60.6	799.6	49.4	90.0	559.3	1 645.6	1 677.8	3 347.8	142.3	541.5	3	3	8	2499	
436.0	6 083.7	350.5	651.2	4 189.1	12 828.9	11 228.9	24 126.7	566.2	3 997.4	1	1	6	25	
263.0	3 161.7	221.4	402.6	2 309.8	6 455.0	6 278.2	12 775.8	245.9	2 164.8	1	2	10	251	
125.6	1 402.7	109.2	197.2	1 070.6	2 715.0	2 317.8	5 056.6	119.1	1 162.4	1	2	14	2511	
70.6	849.9	59.8	105.6	637.2	1 745.3	1 751.5	3 505.3	57.2	441.4	2	3	30	2512	
27.0	362.4	21.5	41.8	240.3	807.0	774.1	1 590.7	25.4	277.7	1	3	13	2514	
25.4	357.4	19.0	35.6	218.9	882.4	1 047.4	1 935.4	25.0	200.5	3	4	8	2515	
7.0	88.6	5.9	10.8	66.4	152.1	151.8	306.6	7.3	32.5	2	2	5	2517	
7.4	100.7	6.0	11.7	76.4	153.3	225.6	381.1	11.9	50.3	6	14	21	2519	
58.7	1 050.9	43.8	87.2	678.0	2 476.9	1 655.0	4 150.1	146.8	625.6	1	2	8	252	
21.0	296.1	16.6	32.0	194.0	659.0	424.2	1 087.4	32.6	198.2	3	4	36	2521	
37.8	754.8	27.3	53.2	483.9	1 817.9	1 230.9	3 062.7	114.2	427.4	1	3	2	2522	
18.8	294.9	13.8	26.2	175.8	578.8	521.6	1 102.8	24.8	203.7	2	5	16	253	
18.8	294.9	13.8	26.2	175.8	578.8	521.6	1 102.8	24.8	203.7	2	5	16	2531	
59.7	1 025.0	44.9	85.8	687.2	2 079.5	1 620.7	3 709.9	74.0	592.3	2	3	12	254	
31.7	543.0	24.3	46.9	379.6	1 017.1	746.3	1 766.7	39.2	250.3	3	5	23	2541	
28.0	482.0	20.5	38.9	294.5	1 062.5	874.4	1 943.2	48.1	342.0	2	2	12	2542	
35.8	551.1	26.5	51.4	351.5	1 238.7	1 153.4	2 390.1	61.3	411.0	3	4	5	259	
15.7	223.7	11.7	22.0	146.8	556.6	557.6	1 114.4	31.3	211.3	1	2	3	2591	
20.1	327.4	14.9	29.4	204.8	682.0	595.8	1 275.7	30.0	199.6	5	6	10	2599	
605.6	12 947.5	461.2	923.0	9 040.3	33 375.7	46 620.1	79 895.1	5 098.3	8 922.7	1	1	2	26	
16.7	467.5	12.8	24.8	344.1	1 113.8	1 986.5	3 110.4	658.6	451.5	1	1	1	261	
16.7	467.5	12.8	24.8	344.1	1 113.8	1 986.5	3 110.4	658.6	451.5	1	1	1	2611	
129.0	3 430.6	100.1	208.4	2 563.6	8 954.1	12 136.7	20 994.6	1 856.1	2 247.1	1	1	1	262	
129.0	3 430.6	100.1	208.4	2 563.6	8 954.1	12 136.7	20 994.6	1 856.1	2 247.1	1	1	1	2621	
55.6	1 501.5	43.0	88.5	1 117.7	3 739.8	5 842.3	9 531.1	1 286.7	759.6	1	1	2	263	
55.6	1 501.5	43.0	88.5	1 117.7	3 739.8	5 842.3	9 531.1	1 286.7	759.6	1	1	2	2631	
213.3	3 960.6	161.7	319.4	2 665.9	12 014.1	14 658.3	26 700.7	786.2	3 070.5	2	1	5	264	
43.1	882.4	29.5	59.1	529.3	2 330.9	3 117.2	5 454.0	200.8	716.2	3	2	9	2641	
24.4	428.7	19.0	37.0	287.5	853.6	919.9	1 771.3	45.1	210.4	1	2	10	2642	
50.2	850.9	39.9	78.7	597.7	2 055.5	2 972.5	5 037.6	140.8	690.3	3	3	11	2643	
15.9	245.9	12.6	23.7	168.6	708.7	975.4	1 680.1	31.8	191.5	3	6	17	2645	
3.2	60.7	2.6	5.3	47.9	140.8	99.3	236.2	7.1	28.6	16	10	3	2646	
36.7	863.3	28.8	59.0	641.3	4 341.0	4 736.6	9 086.0	271.1	640.0	1	1	8	2647	
12.6	193.1	9.5	18.3	127.1	433.1	600.7	1 034.0	21.4	177.2	2	3	15	2648	
27.2	435.6	19.7	38.4	266.5	1 150.5	1 236.7	2 401.5	67.2	416.3	8	5	8	2649	
187.5	3 516.7	140.7	276.2	2 294.3	7 395.8	11 791.9	19 192.3	496.2	2 348.5	2	1	6	265	
43.7	837.6	34.6	69.2	587.0	1 672.7	2 223.8	3 901.8	104.5	639.7	1	2	21	2651	
10.6	134.7	8.9	16.7	91.3	250.2	184.5	433.2	10.0	62.0	9	12	34	2652	
94.4	1 861.8	67.4	132.0	1 147.9	3 659.0	6 883.1	10 558.1	283.5	1 042.2	2	1	6	2653	
24.6	430.1	18.4	36.2	283.8	1 239.4	1 602.6	2 825.8	67.1	449.3	4	2	17	2654	
14.1	252.5	11.4	22.1	184.3	574.5	897.9	1 473.5	31.1	155.3	2	2	11	2655	
3.6	70.6	2.9	5.7	54.8	158.2	204.4	366.1	14.5	45.4	2	5	7	266	
3.6	70.6	2.9	5.7	54.8	158.2	204.4	366.1	14.5	45.4	2	5	7	2661	

Table 2. Statistics for Industry Groups and Industries: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983									
		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
		A	B	C	D	E					
27	Printing and publishing	1 300.7	24 211.7	722.6	1 339.1	12 052.5	60 062.0	33 040.8	92 834.0	3 236.9	7 594.1
271	Newspapers	404.1	7 059.1	150.0	263.6	2 600.2	17 298.2	5 991.5	23 259.4	991.3	795.4
2711	Newspapers	404.1	7 059.1	150.0	263.6	2 600.2	17 298.2	5 991.5	23 259.4	991.3	795.4
272	Periodicals	93.4	2 073.7	17.3	31.9	256.3	7 868.9	4 603.6	12 436.7	251.7	774.2
2721	Periodicals	93.4	2 073.7	17.3	31.9	256.3	7 868.9	4 603.6	12 436.7	251.7	774.2
273	Books	112.9	2 287.1	50.3	97.8	835.3	7 359.3	3 712.9	10 999.7	263.9	1 771.4
2731	Book publishing	69.3	1 474.9	17.1	33.0	277.9	5 823.8	2 683.2	8 427.4	163.6	1 521.1
2732	Book printing	43.6	812.1	33.3	64.8	557.4	1 535.5	1 029.7	2 572.3	100.3	250.3
274	Miscellaneous publishing	44.8	712.2	18.4	29.9	211.6	2 105.4	943.4	3 011.7	82.5	298.3
2741	Miscellaneous publishing	44.8	712.2	18.4	29.9	211.6	2 105.4	943.4	3 011.7	82.5	298.3
275	Commercial printing	455.1	8 560.5	344.6	648.5	5 818.0	16 687.8	12 902.5	29 566.4	1 272.9	2 519.7
2751	Commercial printing, letterpress	100.8	1 639.8	76.8	147.3	1 055.6	3 249.6	2 464.2	5 700.1	112.7	606.2
2752	Commercial printing, lithographic	315.1	6 052.1	238.9	440.1	4 131.5	11 741.8	9 025.3	20 754.0	962.7	1 661.1
2753	Engraving and plate printing	11.8	216.2	8.6	15.9	138.6	444.9	145.3	588.7	2.7	59.3
2754	Commercial printing, gravure	27.3	652.4	22.3	45.1	492.2	1 251.5	1 267.7	2 523.7	194.8	193.1
276	Manifold business forms	47.7	981.7	34.5	68.4	656.5	2 667.5	2 659.2	5 310.7	99.5	618.2
2761	Manifold business forms	47.7	981.7	34.5	68.4	656.5	2 667.5	2 659.2	5 310.7	99.5	618.2
277	Greeting card publishing	22.5	381.6	13.5	21.0	170.0	1 611.2	666.4	2 250.6	51.1	261.5
2771	Greeting card publishing	22.5	381.6	13.5	21.0	170.0	1 611.2	666.4	2 250.6	51.1	261.5
278	Blankbooks and bookbinding	62.7	1 000.4	50.9	97.3	699.9	2 253.7	942.5	3 181.1	91.8	329.4
2782	Blankbooks and looseleaf binders	36.9	635.0	28.8	50.5	424.8	1 606.0	735.4	2 335.5	60.9	255.8
2789	Bookbinding and related work	25.8	365.5	22.2	41.6	275.1	647.6	207.1	845.6	30.8	73.6
279	Printing trade services	57.4	1 155.4	43.0	80.6	804.8	2 210.1	618.9	2 817.5	132.3	226.1
2791	Typesetting	34.7	588.4	27.9	51.7	431.8	1 138.5	248.2	1 384.2	65.6	115.6
2793	Photoengraving	3.4	61.5	2.3	4.7	42.5	116.9	27.4	144.1	2.8	5.1
2794	Electrotyping and stereotyping	19.5	505.6	12.8	24.2	330.5	954.7	343.3	1 289.2	64.0	105.3
2795	Lithographic platemaking services	19.5	505.6	12.8	24.2	330.5	954.7	343.3	1 289.2	64.0	105.3
28	Chemicals and allied products	850.7	21 411.2	496.0	989.7	10 867.6	86 472.4	96 893.1	183 205.5	7 082.5	24 359.3
281	Industrial inorganic chemicals	105.5	2 861.8	60.1	119.5	1 479.2	9 204.5	8 590.3	17 758.1	820.1	2 261.3
2812	Alkalies and chlorine	7.3	217.9	4.8	9.8	136.8	765.0	898.6	1 666.8	200.3	181.0
2813	Industrial gases	7.2	168.1	3.9	8.8	90.2	1 169.6	959.9	2 111.9	107.5	82.9
2816	Inorganic pigments	10.8	291.6	6.6	13.4	161.8	758.1	1 014.1	1 779.8	93.6	368.5
2819	Industrial inorganic chemicals, n.e.c.	80.3	2 184.2	44.8	87.5	1 090.3	6 511.9	5 717.8	12 199.6	418.7	1 628.9
282	Plastics materials and synthetics	134.0	3 541.9	91.1	179.3	2 146.0	12 395.2	20 654.3	32 992.5	1 159.6	3 992.5
2821	Plastics materials and resins	53.2	1 505.6	32.7	67.3	863.9	6 716.7	12 298.4	18 935.8	756.4	2 173.9
2822	Synthetic rubber	11.1	343.3	7.1	14.1	202.3	959.0	2 160.1	3 148.6	101.5	367.0
2823	Cellulosic manmade fibers	14.4	311.0	10.7	21.1	198.0	522.7	934.1	1 445.0	44.4	185.2
2824	Organic fibers, noncellulosic	55.3	1 381.9	40.6	76.9	881.8	4 196.8	5 261.8	9 463.1	257.4	1 266.5
283	Drugs	168.0	4 229.7	84.2	160.2	1 615.5	19 367.7	8 209.5	27 409.7	1 191.0	4 025.8
2831	Biological products	26.6	584.0	12.5	21.5	183.7	1 833.8	1 023.6	2 817.1	83.2	609.6
2833	Medicinals and botanicals	17.7	472.0	9.8	19.0	230.6	2 057.5	1 287.2	3 370.6	273.9	598.2
2834	Pharmaceutical preparations	123.7	3 173.7	61.9	117.6	1 201.3	15 476.4	5 898.8	21 222.0	833.9	2 818.1
284	Soaps, cleaners, and toilet goods	126.8	2 673.8	75.2	149.0	1 359.0	15 502.9	11 488.6	27 034.5	630.9	3 020.8
2841	Soap and other detergents	35.5	860.5	21.3	42.9	490.6	4 282.5	4 780.6	9 116.6	240.9	1 046.1
2842	Polishes and sanitation goods	21.2	432.0	13.4	27.4	238.2	2 781.4	1 942.5	4 717.0	55.9	445.9
2843	Surface active agents	9.3	238.8	4.3	8.9	93.6	836.0	2 275.8	3 338.8	88.8	280.0
2844	Toilet preparations	60.9	1 142.5	36.3	69.9	536.6	7 603.0	3 338.8	10 925.1	245.4	1 248.8
285	Paints and allied products	53.6	1 207.7	27.5	54.1	504.4	4 706.3	5 577.3	10 194.6	280.1	1 375.3
2851	Paints and allied products	53.6	1 207.7	27.5	54.1	504.4	4 706.3	5 577.3	10 194.6	280.1	1 375.3
286	Industrial organic chemicals	136.7	4 073.2	81.1	164.6	2 244.7	14 512.5	26 685.6	41 263.6	2 380.3	5 991.7
2861	Gum and wood chemicals	3.6	86.6	2.6	5.2	58.7	161.3	438.3	603.7	26.3	153.5
2865	Cyclic crudes and intermediates	26.4	749.5	15.6	31.2	409.2	2 333.8	5 036.9	7 398.0	532.4	1 132.6
2869	Industrial organic chemicals, n.e.c.	106.7	3 237.1	62.9	128.1	1 776.8	12 017.4	21 210.5	33 262.0	1 821.6	4 705.5
287	Agricultural chemicals	46.0	1 074.4	28.7	57.8	607.4	5 108.1	8 555.0	13 726.1	330.5	2 105.8
2873	Nitrogenous fertilizers	8.7	231.0	5.1	10.8	131.5	913.2	2 006.8	2 950.2	55.3	483.5
2874	Phosphatic fertilizers	12.9	308.0	9.1	19.0	206.1	965.5	2 981.4	969.4	99.2	522.2
2875	Fertilizers, mixing only	9.3	146.1	5.8	11.4	74.4	516.4	1 386.1	1 902.9	34.3	341.4
2879	Agricultural chemicals, n.e.c.	15.0	389.3	8.7	16.6	195.4	2 713.1	2 180.7	4 903.6	141.7	758.7
289	Miscellaneous chemical products	80.3	1 748.6	48.1	96.2	911.3	5 675.2	7 132.4	12 826.3	290.0	1 586.0
2891	Adhesives and sealants	18.2	384.5	10.8	20.9	184.7	1 209.0	1 909.8	3 118.5	42.0	362.3
2892	Explosives	12.0	266.9	7.9	14.9	156.0	612.7	308.9	919.7	22.0	135.1
2893	Printing ink	9.8	222.5	5.4	11.4	105.4	602.9	1 064.3	1 665.8	24.0	196.8
2895	Carbon black	2.0	57.1	1.4	3.1	41.4	170.3	1 426.8	1 723.9	27.3	51.6
2899	Chemical preparations, n.e.c.	38.3	817.5	22.5	45.9	423.7	3 080.3	3 408.6	6 498.5	174.7	840.2
29	Petroleum and coal products	146.3	4 409.1	95.1	200.2	2 723.3	21 043.5	170 309.0	192 570.3	4 583.0	15 058.7
291	Petroleum refining	103.5	3 440.4	66.7	141.3	2 147.2	17 880.8	163 416.7	182 591.8	4 319.1	13 867.9
2911	Petroleum refining	103.5	3 440.4	66.7	141.3	2 147.2	17 880.8	163 416.7	182 591.8	4 319.1	13 867.9
295	Paving and roofing materials	29.5	656.3	21.3	44.7	442.9	1 897.8	4 615.7	6 494.0	104.1	473.5
2951	Paving mixtures and blocks	15.0	343.4	10.7	22.1	230.5	1 005.2	2 242.1	3 237.4	48.1	176.4
2952	Asphalt felts and coatings	14.5	312.9	10.6	22.7	212.5	892.6	2 373.6	3 256.6	56.0	297.1
299	Miscellaneous petroleum and coal products	13.3	312.5	7.1	14.2	133.2	1 264.9	2 276.6	3 484.6	159.8	717.3
2992	Lubricating oils and greases	11.1	261.6	5.5	11.1	101.1	1 116.9	2 744.2	2 821.2	44.6	579.0
2999	Petroleum and coal products, n.e.c.	2.2	50.9	1.5	3.1	32.0	148.0	532.4	663.4	115.2	138.3

See footnotes at end of table.

1982														Standard error of estimate (percent) for column—	SIC code
All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expendi- tures (million dollars)	End-of-year inventories (million dollars)						
Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						A	F	I			
K	L	M	N	O	P	Q	R	S	T						
1 291.8	22 706.9	710.9	1 313.0	11 307.4	54 423.4	31 377.2	85 796.9	3 213.2	7 039.5	1	1	4	27		
401.5	6 554.7	147.2	259.3	2 386.3	15 275.3	6 006.4	21 276.3	1 029.2	754.9	2	1	4	271		
401.5	6 554.7	147.2	259.3	2 386.6	15 275.3	6 006.4	21 276.3	910.3	754.9	2	1	4	2711		
94.0	1 986.1	17.4	31.9	243.2	6 910.9	4 568.1	11 478.0	194.8	723.9	2	2	11	272		
94.0	1 986.1	17.4	31.9	243.2	6 910.9	4 568.1	11 478.0	194.8	723.9	2	2	11	2721		
111.7	2 089.8	49.7	95.5	779.6	6 721.4	3 368.2	10 132.4	272.7	1 623.5	1	1	4	273		
67.1	1 327.3	15.2	30.8	237.1	5 291.5	2 420.0	7 740.0	174.1	1 379.9	1	1	5	2731		
44.7	762.5	34.5	64.7	542.6	1 429.9	948.1	2 392.4	98.6	243.6	1	2	6	2732		
45.3	705.9	17.9	29.2	206.2	1 958.2	909.6	2 871.3	67.1	244.4	3	2	9	274		
45.3	705.9	17.9	29.2	206.2	1 958.2	909.6	2 871.3	67.1	244.4	3	2	9	2741		
451.7	8 087.4	339.4	635.7	5 500.2	15 738.2	11 979.0	27 699.8	1 266.1	2 374.1	1	1	8	275		
103.6	1 575.5	76.9	145.2	1 003.7	3 161.1	2 343.7	5 503.9	189.7	583.4	2	2	15	2751		
311.9	5 746.4	234.1	434.8	3 931.9	11 045.1	8 406.4	19 441.6	958.1	1 524.1	1	2	8	2752		
12.4	220.2	9.0	16.4	147.9	436.5	149.8	584.2	33.1	53.5	4	5	36	2753		
23.8	545.2	19.5	39.3	416.8	1 095.5	1 079.1	2 170.0	85.2	213.1	3	2	33	2754		
49.5	934.0	36.2	71.1	634.3	2 490.7	2 563.1	5 058.7	135.4	571.9	3	2	14	276		
49.5	934.0	36.2	71.1	634.3	2 490.7	2 563.1	5 058.7	135.4	571.9	3	2	14	2761		
20.8	344.2	11.7	20.2	155.2	1 348.8	554.6	1 893.6	37.2	220.5	10	3	5	277		
20.8	344.2	11.7	20.2	155.2	1 348.8	554.6	1 893.6	37.2	220.5	10	3	5	2771		
61.2	903.1	49.7	92.6	635.6	1 963.5	854.2	2 802.9	77.8	305.5	3	2	11	278		
35.9	564.8	28.0	52.9	380.5	1 379.5	671.0	2 039.4	55.7	244.6	2	2	11	2782		
25.4	338.3	21.7	39.7	255.1	584.0	183.3	763.5	27.3	60.9	6	5	25	2789		
56.0	1 101.8	41.6	77.5	766.5	2 016.6	574.1	2 583.8	133.1	220.8	2	4	28	279		
33.7	570.6	26.5	49.0	418.3	1 040.2	210.0	1 242.9	64.3	110.6	3	6	54	2791		
3.4	64.0	2.5	4.9	43.4	118.6	34.8	153.2	5.0	6.2	1	1	1	2793		
18.8	467.2	12.6	23.7	304.9	857.7	329.3	1 187.7	63.8	104.0	4	3	19	2795		
872.6	20 835.7	508.6	1 003.5	10 543.8	77 314.8	92 556.9	170 736.9	9 086.8	23 830.1	1	1	2	28		
107.7	2 795.2	61.9	123.9	1 461.5	8 828.5	6 553.5	17 280.1	999.5	2 349.3	1	1	5	281		
7.6	215.7	5.0	9.8	134.8	728.8	856.3	1 570.5	134.4	199.9	1	1	1	2812		
7.3	174.0	4.3	9.9	100.8	1 055.3	967.2	2 019.3	223.7	61.0	7	2	3	2813		
11.2	271.3	6.8	13.3	148.6	723.0	892.8	1 630.0	128.9	383.2	2	4	4	2816		
81.7	2 134.2	45.7	91.0	1 077.3	6 321.4	5 837.1	12 060.4	512.5	1 705.1	1	1	8	2819		
141.0	3 450.6	94.4	182.9	2 051.9	9 401.5	18 800.3	28 428.1	1 676.5	3 644.0	1	1	1	282		
54.7	1 433.9	32.8	67.4	790.0	4 746.0	10 807.3	15 769.2	898.8	1 891.8	1	2	1	2821		
11.9	343.7	7.6	15.0	197.5	908.9	2 226.8	3 156.4	246.4	382.1	1	1	1	2822		
14.2	291.0	10.8	21.0	194.5	428.7	806.8	1 239.9	88.4	147.3	1	1	1	2823		
60.2	1 382.0	43.1	79.6	869.9	3 317.9	4 959.4	8 262.7	442.9	1 223.0	1	1	1	2824		
165.7	3 965.5	84.1	163.1	1 556.2	16 980.6	7 749.4	24 695.4	1 248.1	3 805.2	1	1	2	283		
23.5	449.8	11.7	22.2	164.1	1 441.9	884.4	2 300.0	103.3	560.0	2	2	7	2831		
17.8	463.2	10.2	20.9	228.8	2 054.7	1 335.2	3 397.9	283.6	628.3	1	1	5	2833		
124.4	3 052.5	62.2	120.0	1 163.4	13 484.0	5 529.8	18 977.6	861.2	2 616.9	1	1	2	2823		
127.3	2 581.1	75.4	148.0	1 291.3	15 281.8	10 686.8	26 031.1	650.1	2 918.9	1	1	4	284		
35.4	827.1	21.2	42.5	457.1	4 777.1	4 371.9	9 167.3	261.9	1 059.9	3	2	5	2841		
23.0	443.7	14.6	29.1	236.1	2 626.2	1 974.4	4 613.7	80.9	463.2	2	3	8	2842		
8.5	208.2	3.8	7.9	77.4	747.8	1 314.3	2 067.2	86.6	259.8	1	3	13	2843		
60.4	1 102.1	35.8	68.6	520.7	7 130.6	3 026.3	10 183.2	220.7	1 136.0	1	1	8	2844		
54.1	1 157.7	27.6	53.6	481.1	3 952.5	5 167.6	9 162.1	219.2	1 231.5	2	2	5	285		
54.1	1 157.7	27.6	53.6	481.1	3 952.5	5 167.6	9 162.1	219.2	1 231.5	2	2	5	2851		
143.6	4 004.7	84.4	170.8	2 169.1	12 340.5	25 406.0	38 156.8	3 075.4	6 045.1	1	1	3	286		
4.5	82.5	3.5	7.5	56.7	215.5	409.2	624.2	40.2	159.7	20	5	20	2861		
27.3	731.0	16.0	32.3	397.2	2 031.5	5 007.8	7 138.2	454.7	1 132.4	1	2	2	2865		
111.8	3 191.3	65.0	131.1	1 715.2	10 093.5	19 989.0	30 394.4	2 580.5	4 753.0	1	1	4	2869		
50.9	1 155.8	31.7	64.4	644.1	5 096.9	9 345.9	14 652.5	698.8	2 221.6	1	2	6	287		
10.4	268.1	6.3	13.5	156.3	981.0	2 395.3	3 391.1	145.3	511.8	1	2	6	2873		
14.3	328.2	9.7	20.0	206.8	760.5	3 055.8	3 921.9	229.6	581.9	1	3	3	2874		
9.8	155.7	6.0	12.2	76.5	406.5	1 445.5	1 903.4	35.4	344.1	4	15	52	2875		
16.5	403.8	9.7	18.7	204.4	2 948.9	2 449.2	5 436.1	288.5	783.7	1	1	1	2879		
82.3	1 725.1	49.0	96.7	888.5	5 432.6	6 847.4	12 330.4	519.2	1 614.4	1	2	6	289		
18.2	366.0	10.9	20.7	173.2	1 151.4	1 699.9	2 857.9	70.1	362.6	2	4	18	2891		
12.3	253.3	7.9	15.1	144.1	580.7	340.8	922.7	32.9	101.1	1	4	13	2892		
9.9	214.1	5.5	11.0	101.9	557.5	1 016.2	1 572.6	25.5	196.9	3	4	12	2893		
2.1	54.9	1.6	3.0	39.1	190.8	433.7	632.9	39.4	80.4	2	6	23	2895		
39.7	836.8	23.1	46.8	430.2	2 952.2	3 356.8	6 344.3	351.3	873.4	2	2	6	2899		
151.6	4 338.7	99.6	225.2	2 612.7	22 068.5	185 191.1	208 918.6	6 578.9	17 179.5	1	1	1	29		
108.3	3 397.9	71.0	147.9	2 057.4	19 246.8	178 524.4	199 356.5	6 322.4	16 204.1	1	1	1	291		
108.3	3 397.9	71.0	147.9	2 057.4	19 246.8	178 524.4	199 356.5	6 322.4	16 204.1	1	1	1	2911		
29.5	629.1	21.6	43.2	424.2	1 742.8	4 153.1	5 948.1	133.2	418.9	2	5	13	295		
15.2	340.5	11.1	22.2	229.1	925.9	2 162.4	3 098.6	76.1	162.1	2	3	21	2951		
14.2	288.7	10.4	21.0	195.1	816.9	1 993.7	2 849.5	57.1	256.9	2	9	17	2952		
13.8	311.7	7.0	14.1	131.1	1 078.9	2 510.6	3 614.1	123.4	556.5	4	8	6	299		
11.9	266.2	5.6	11.3	102.3	902.6	1 949.5	2 875.3	67.8	364.1	2	9	20	2992		
2.0	45.5	1.4	2.8	28.7	176.4	561.1	738.8	55.6	192.4	17	24	3	2999		

Table 2. Statistics for Industry Groups and Industries: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983									
		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expenditures (million dollars) ¹	End-of-year inventories (million dollars)
		Number	Payroll	Number	Hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
		A	B	C	D	E	F	G	H	I	J
30	Rubber and miscellaneous plastics products	684.4	12 305.4	527.2	1 036.4	8 229.1	29 804.7	30 312.8	60 329.4	1 766.8	7 369.8
301	Tires and inner tubes	66.9	1 857.2	52.2	103.5	1 397.1	5 263.8	4 731.6	10 165.4	243.5	1 025.2
3011	Tires and inner tubes	66.9	1 857.2	52.2	103.5	1 397.1	5 263.8	4 731.6	10 165.4	243.5	1 025.2
302	Rubber and plastics footwear	17.3	200.0	14.9	27.1	148.7	425.9	339.2	728.0	12.7	153.7
3021	Rubber and plastics footwear	17.3	200.0	14.9	27.1	148.7	425.9	339.2	728.0	12.7	153.7
303	Reclaimed rubber	.7	11.5	.6	.9	8.6	23.2	23.7	47.0	.7	8.8
3031	Reclaimed rubber	.7	11.5	.6	.9	8.6	23.2	23.7	47.0	.7	8.8
304	Rubber and plastics hose and belting	22.3	453.7	15.9	29.5	300.0	1 108.9	875.1	1 988.4	55.7	366.6
3041	Rubber and plastics hose and belting	22.3	453.7	15.9	29.5	300.0	1 108.9	875.1	1 988.4	55.7	366.6
306	Fabricated rubber products, n.e.c.	91.2	1 685.0	68.2	135.5	1 074.7	3 584.3	3 453.0	7 002.7	172.5	903.6
3069	Fabricated rubber products, n.e.c.	91.2	1 685.0	68.2	135.5	1 074.7	3 584.3	3 453.0	7 002.7	172.5	903.6
307	Miscellaneous plastics products	486.0	8 098.1	375.5	739.9	5 300.2	19 398.6	20 890.3	40 398.0	1 281.7	4 911.9
3079	Miscellaneous plastics products	486.0	8 098.1	375.5	739.9	5 300.2	19 398.6	20 890.3	40 398.0	1 281.7	4 911.9
31	Leather and leather products	188.8	2 225.1	161.9	289.9	1 613.0	4 852.8	5 005.8	9 830.9	121.5	1 551.3
311	Leather tanning and finishing	19.5	332.0	16.2	31.8	242.6	649.5	1 271.3	1 881.7	41.0	313.0
3111	Leather tanning and finishing	19.5	332.0	16.2	31.8	242.6	649.5	1 271.3	1 881.7	41.0	313.0
313	Boot and shoe cut stock and findings	6.3	75.7	5.7	10.6	57.3	142.0	206.0	353.1	4.5	50.1
3131	Boot and shoe cut stock and findings	6.3	75.7	5.7	10.6	57.3	142.0	206.0	353.1	4.5	50.1
314	Footwear, except rubber	113.4	1 236.5	100.1	178.1	957.4	2 849.8	2 372.8	5 228.0	51.9	790.7
3142	House slippers	6.4	64.2	5.4	9.8	45.8	128.9	108.6	241.9	2.6	52.3
3143	Men's footwear, except athletic	43.0	494.1	38.0	67.1	380.8	1 138.7	1 120.5	2 264.0	18.8	386.5
3144	Women's footwear, except athletic	46.5	495.4	41.5	74.4	393.6	1 156.2	809.9	1 957.7	22.8	229.9
3149	Footwear, except rubber, n.e.c.	17.4	182.9	15.2	26.7	137.1	426.0	333.8	764.5	7.7	122.0
315	Leather gloves and mittens	3.5	31.8	3.0	4.7	24.2	69.1	99.7	167.4	.8	33.7
3151	Leather gloves and mittens	3.5	31.8	3.0	4.7	24.2	69.1	99.7	167.4	.8	33.7
316	Luggage	15.3	206.8	11.8	20.2	112.5	442.9	362.8	813.5	8.4	123.4
3161	Luggage	15.3	206.8	11.8	20.2	112.5	442.9	362.8	813.5	8.4	123.4
317	Handbags and other personal leather goods	24.3	266.4	19.6	34.8	168.2	535.6	525.0	1 055.0	8.5	182.8
3171	Women's handbags and purses	14.5	149.2	12.3	21.7	100.3	275.5	340.9	613.1	6.3	83.1
3172	Personal leather goods, n.e.c.	9.8	117.2	7.2	13.2	67.9	260.0	184.1	441.9	2.2	99.7
319	Leather goods, n.e.c.	6.6	75.9	5.5	9.8	50.8	163.7	165.8	332.1	6.5	57.7
3199	Leather goods, n.e.c.	6.6	75.9	5.5	9.8	50.8	163.7	165.8	332.1	6.5	57.7
32	Stone, clay, and glass products	525.8	10 517.8	408.3	811.1	7 508.8	25 326.2	23 586.8	48 708.7	1 745.7	6 936.6
321	Flat glass	15.7	448.6	12.7	26.5	357.4	1 124.2	837.8	1 930.3	108.4	299.0
3211	Flat glass	15.7	448.6	12.7	26.5	357.4	1 124.2	837.8	1 930.3	108.4	299.0
322	Glass and glassware, pressed or blown	92.4	2 080.9	78.1	153.7	1 677.0	4 515.4	3 477.9	7 966.2	360.7	1 384.8
3221	Glass containers	55.0	1 285.0	48.1	94.3	1 086.7	2 492.5	2 402.9	4 860.2	187.0	830.0
3229	Pressed and blown glass, n.e.c.	37.4	785.9	29.9	59.4	590.3	2 022.8	1 075.0	3 106.1	173.7	554.8
323	Products of purchased glass	42.8	741.1	33.1	64.0	503.5	1 644.4	1 595.0	3 204.0	72.2	528.7
3231	Products of purchased glass	42.8	741.1	33.1	64.0	503.5	1 644.4	1 595.0	3 204.0	72.2	528.7
324	Cement, hydraulic	23.1	639.6	17.8	35.2	475.2	1 914.6	1 761.8	3 683.1	201.3	801.6
3241	Cement, hydraulic	23.1	639.6	17.8	35.2	475.2	1 914.6	1 761.8	3 683.1	201.3	801.6
325	Structural clay products	32.6	540.4	25.3	52.5	392.4	1 245.3	969.7	2 192.6	75.6	539.9
3251	Brick and structural clay tile	15.4	229.9	11.7	24.5	162.6	456.6	378.5	836.7	49.7	224.3
3253	Ceramic wall and floor tile	8.2	127.2	6.8	17.7	96.9	302.9	169.0	470.8	13.0	80.3
3255	Clay refractories	6.9	147.1	5.1	10.0	103.9	398.0	358.5	745.5	12.0	197.6
3259	Structural clay products, n.e.c.	2.2	36.2	1.7	3.6	29.0	87.8	54.7	139.7	.9	37.7
326	Pottery and related products	37.5	620.2	30.8	56.9	460.0	1 300.7	619.0	1 885.8	68.0	367.4
3261	Vitreous plumbing fixtures	8.7	165.1	7.4	14.4	133.5	380.1	197.3	570.6	15.0	90.3
3262	Vitreous china food utensils	6.0	96.8	4.7	8.5	69.4	218.3	61.8	256.9	7.3	84.5
3263	Fine earthenware food utensils	2.6	32.5	2.1	3.9	25.8	52.3	22.6	73.1	1.6	21.6
3264	Porcelain electrical supplies	10.1	197.0	8.1	14.6	135.3	357.3	186.4	542.8	36.7	120.8
3269	Pottery products, n.e.c.	10.1	128.7	8.5	15.6	96.0	292.6	150.9	442.4	7.3	50.2
327	Concrete, gypsum, and plaster products	168.4	3 165.7	125.5	253.6	2 118.0	7 438.8	9 199.5	16 594.2	560.7	1 250.0
3271	Concrete block and brick	15.9	282.4	9.5	17.9	141.8	731.1	858.5	1 581.9	107.9	217.6
3272	Concrete products, n.e.c.	54.2	960.0	41.3	83.8	638.0	2 099.9	1 666.9	3 719.2	112.9	482.8
3273	Ready-mixed concrete	83.8	1 602.0	63.1	126.6	1 082.9	3 635.0	5 394.0	9 025.7	284.5	378.9
3274	Lime	5.2	109.9	4.1	8.4	81.1	250.6	305.6	557.7	20.9	72.9
3275	Gypsum products	9.4	211.5	7.5	16.8	164.3	722.2	974.5	1 709.7	34.5	97.8
328	Cut stone and stone products	10.2	158.3	8.5	16.3	120.7	302.1	266.7	570.0	7.0	71.3
3281	Cut stone and stone products	10.2	158.3	8.5	16.3	120.7	302.1	266.7	570.0	7.0	71.3
329	Miscellaneous nonmetallic mineral products	103.1	2 123.0	76.4	152.4	1 404.7	5 840.6	4 868.5	10 682.4	292.0	1 694.0
3291	Abrasive products	24.8	535.4	16.5	31.6	305.2	1 698.6	1 482.1	3 195.9	78.3	536.9
3292	Asbestos products	8.6	173.7	6.7	13.5	119.2	385.5	376.0	750.0	21.2	134.8
3293	Gaskets, packing, and sealing devices	29.4	497.8	21.8	42.6	312.0	1 070.9	753.6	1 814.0	43.8	343.4
3295	Minerals, ground or treated	10.7	225.7	8.0	16.3	155.0	723.8	696.0	1 423.6	47.9	225.7
3296	Mineral wool	19.5	476.2	15.6	32.9	364.6	1 440.7	1 082.0	2 517.6	56.4	194.4
3297	Nonclay refractories	5.6	122.5	4.1	7.7	84.8	288.3	312.8	588.9	20.8	195.9
3299	Nonmetallic mineral products, n.e.c.	4.4	84.8	3.7	7.8	63.9	232.9	166.0	392.3	23.5	62.8

See footnotes at end of table.

1982													SIC code
All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expen- diture (million dollars)	End-of-year inventories (million dollars)	Standard error of estimate (percent) for column 1—			
Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						A	F	I	
K	L	M	N	O	P	Q	R	S	T	A	F	I	
681.7	11 596.8	522.6	996.0	7 691.1	27 218.9	27 950.0	55 415.8	2 199.2	7 200.5	1	1	4 30	
70.3	1 733.9	54.6	101.1	1 285.6	4 660.4	4 594.6	9 340.1	227.0	1 172.6	1	1	1 301	
70.3	1 733.9	54.6	101.1	1 285.6	4 660.4	4 594.6	9 340.1	227.0	1 172.6	1	1	1 3011	
17.6	196.5	15.0	27.8	149.1	360.1	333.8	706.2	12.4	114.0	1	1	3 302	
17.6	196.5	15.0	27.8	149.1	360.1	333.8	706.2	12.4	114.0	1	1	3 3021	
.7	11.2	.6	1.0	8.5	22.6	22.1	45.1	.3	8.8	3	4	1 303	
.7	11.2	.6	1.0	8.5	22.6	22.1	45.1	.3	8.8	3	4	1 3031	
24.9	503.1	17.7	31.9	330.4	1 027.8	887.4	1 945.5	114.0	407.3	1	3	2 304	
24.9	503.1	17.7	31.9	330.4	1 027.8	887.4	1 945.5	114.0	407.3	1	3	2 3041	
89.4	1 561.1	66.3	128.8	990.5	3 212.6	3 132.0	6 365.7	219.3	858.7	1	1	5 306	
89.4	1 561.1	66.3	128.8	990.5	3 212.6	3 132.0	6 365.7	219.3	858.7	1	1	5 3069	
478.9	7 591.0	368.4	705.4	4 927.2	17 935.3	18 980.1	37 013.1	1 626.0	4 639.1	1	1	5 307	
478.9	7 591.0	368.4	705.4	4 927.2	17 935.3	18 980.1	37 013.1	1 626.0	4 639.1	1	1	5 3079	
199.8	2 218.5	171.3	304.1	1 623.1	4 772.9	4 917.1	9 719.2	132.0	1 520.9	1	2	10 31	
19.5	310.6	16.2	31.1	225.2	579.8	1 165.1	1 753.0	33.2	267.0	2	4	26 311	
19.5	310.6	16.2	31.1	225.2	579.8	1 165.1	1 753.0	33.2	267.0	2	4	26 3111	
6.8	80.8	5.7	10.4	54.4	154.7	212.8	367.8	6.7	48.6	9	5	14 313	
6.8	80.8	5.7	10.4	54.4	154.7	212.8	367.8	6.7	48.6	9	5	14 3131	
121.4	1 250.0	107.4	186.7	973.6	2 808.9	2 444.9	5 269.3	65.6	790.0	1	1	2 314	
7.5	71.3	6.4	11.2	51.7	149.7	128.8	275.8	3.1	46.1	4	9	17 3142	
46.5	503.1	40.7	69.6	382.2	1 101.4	1 141.3	2 261.4	28.3	399.2	1	1	3 3143	
48.4	483.1	43.4	77.1	392.9	1 107.0	821.9	1 933.2	20.2	214.5	1	1	3 3144	
19.1	192.7	16.8	28.7	146.8	450.9	352.8	798.9	14.0	130.2	1	2	7 3149	
3.9	36.6	3.3	5.6	26.9	72.5	104.4	177.6	.5	33.0	9	7	38 315	
3.9	36.6	3.3	5.6	26.9	72.5	104.4	177.6	.5	33.0	9	7	38 3151	
16.0	193.8	12.5	21.0	112.5	432.8	355.5	789.0	12.0	150.7	7	5	19 316	
16.0	193.8	12.5	21.0	112.5	432.8	355.5	789.0	12.0	150.7	7	5	19 3161	
25.3	271.1	20.5	39.0	178.0	564.0	469.2	1 035.1	8.8	173.8	4	8	33 317	
15.4	158.5	13.2	25.6	111.7	320.4	302.2	623.7	5.6	76.6	6	16	43 3171	
9.9	112.6	7.3	13.4	66.3	243.6	167.0	411.4	3.2	97.2	2	4	28 3172	
7.0	75.6	5.8	10.4	52.5	160.2	165.3	327.4	7.5	57.8	4	7	25 319	
7.0	75.6	5.8	10.4	52.5	160.2	165.3	327.4	7.5	57.8	4	7	25 3199	
531.5	10 096.7	408.4	796.3	7 163.8	22 985.7	22 149.3	45 180.6	2 309.0	6 710.4	1	1	4 32	
15.3	413.8	12.0	24.6	322.0	846.5	827.0	1 665.5	97.6	287.3	2	3	11 321	
15.3	413.8	12.0	24.6	322.0	846.5	827.0	1 665.5	97.6	287.3	2	3	11 3211	
96.6	2 032.4	81.2	157.8	1 626.7	4 482.2	3 505.8	7 940.8	530.7	1 374.3	1	1	2 322	
59.0	1 306.4	51.7	101.0	1 092.3	2 739.1	2 521.8	5 216.8	297.4	799.4	1	1	1 3221	
37.6	726.0	29.5	56.8	534.4	1 743.1	984.0	2 724.0	233.3	575.0	1	1	4 3229	
41.3	696.3	31.5	60.8	466.7	1 483.7	1 480.2	2 976.5	119.1	476.1	1	2	7 323	
41.3	696.3	31.5	60.8	466.7	1 483.7	1 480.2	2 976.5	119.1	476.1	1	2	7 3231	
24.6	636.4	19.1	36.5	473.6	1 815.7	1 752.6	3 542.0	421.9	800.0	2	4	9 324	
24.6	636.4	19.1	36.5	473.6	1 815.7	1 752.6	3 542.0	421.9	800.0	2	4	9 3241	
29.9	490.5	23.4	45.9	347.0	989.2	838.1	1 868.1	56.9	521.0	5	4	16 325	
12.5	185.4	9.9	19.7	130.1	338.6	295.7	657.3	25.7	213.5	10	7	24 3251	
7.5	114.2	6.1	12.3	80.2	256.1	149.7	406.9	4.4	77.4	6	3	6 3253	
7.6	155.2	5.6	10.4	109.3	316.5	339.0	670.3	21.2	191.3	4	6	22 3255	
2.3	35.7	1.8	3.6	27.4	77.9	53.8	133.6	2.3	38.9	4	7	24 3259	
37.4	598.0	30.7	56.5	442.2	1 173.5	597.1	1 761.9	79.6	322.3	2	2	24 326	
7.9	142.9	6.6	12.6	114.5	313.9	162.5	474.0	28.8	82.2	1	2	4 3261	
6.3	98.0	5.1	9.1	74.2	196.3	49.2	241.6	5.2	61.2	4	3	3 3262	
3.0	37.1	2.5	4.5	29.4	61.6	23.7	87.6	.6	20.8	14	15	17 3263	
10.1	197.1	8.0	14.8	132.3	350.0	183.4	528.0	25.9	111.1	5	5	43 3264	
10.1	122.9	8.6	15.4	91.8	251.7	178.3	430.6	18.0	47.1	3	3	21 3269	
167.2	2 994.6	123.4	245.1	2 006.5	6 603.3	8 331.1	14 946.7	569.2	1 151.9	2	3	11 327	
15.5	261.9	9.1	17.8	133.7	577.8	718.4	1 301.8	37.6	198.3	4	8	30 3271	
55.7	961.7	42.5	84.8	649.2	2 006.4	1 627.7	3 649.2	127.7	443.3	2	3	15 3272	
81.4	1 475.3	60.4	118.5	1 005.3	3 282.1	4 877.6	8 163.3	282.4	333.5	3	5	17 3273	
5.6	108.6	4.4	8.5	79.4	245.0	298.2	543.2	36.0	66.4	3	23	4 3274	
9.1	186.9	7.1	15.5	138.9	492.1	809.2	1 289.2	85.5	110.4	5	6	13 3275	
10.5	155.9	8.5	16.5	118.5	295.2	259.0	555.4	23.9	70.0	1	2	9 328	
10.5	155.9	8.5	16.5	118.5	295.2	259.0	555.4	23.9	70.0	1	2	9 3281	
108.8	2 079.0	78.5	152.7	1 360.3	5 296.3	4 558.4	9 923.8	410.0	1 707.5	3	2	6 329	
26.0	531.8	17.0	31.6	305.1	1 451.8	1 277.2	2 750.7	96.9	563.1	1	1	7 3291	
9.7	179.8	7.4	14.6	126.6	397.4	429.3	842.8	31.3	148.0	2	2	13 3292	
30.3	495.4	21.8	41.5	307.9	997.6	661.6	1 666.0	53.0	339.0	3	3	7 3293	
10.0	190.3	7.5	14.4	129.6	639.4	527.8	1 299.9	75.0	193.8	9	5	18 3295	
19.7	438.9	15.5	31.9	334.2	1 236.7	1 041.5	2 281.1	67.0	180.1	1	1	4 3296	
6.8	148.4	4.6	8.7	93.0	333.1	343.3	691.0	48.5	222.9	3	13	36 3297	
6.5	94.5	4.8	10.0	63.9	240.3	177.7	422.3	38.3	60.6	46	21	35 3299	

Table 2. Statistics for Industry Groups and Industries: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

		1983									
SIC code	Industry group and industry	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
33	Primary metal industries	771.2	19 259.6	585.1	1 122.2	13 642.4	35 996.6	71 323.2	108 524.3	4 361.8	22 018.2
331	Blast furnace and basic steel products	314.0	8 849.7	234.8	441.7	6 323.7	15 510.9	29 878.2	45 970.0	2 249.5	11 031.1
3312	Blast furnaces and steel mills	249.2	7 353.3	186.1	349.3	5 292.8	12 380.5	23 639.9	36 449.7	1 986.9	8 749.3
3313	Electrometallurgical products	4.4	100.9	3.3	6.8	70.8	192.5	428.8	661.5	11.8	311.6
3315	Steel wire and related products	22.5	461.5	17.1	32.6	317.4	981.6	1 494.8	2 490.9	74.6	525.7
3316	Cold finishing of steel shapes	14.8	396.9	10.8	20.9	272.9	996.4	2 267.3	3 310.9	41.8	652.7
3317	Steel pipe and tubes	23.1	537.1	17.5	32.0	369.8	959.9	2 047.3	3 057.0	134.4	791.9
332	Iron and steel foundries	137.9	3 030.1	109.1	207.9	2 218.2	5 083.7	4 149.9	9 280.3	296.6	1 227.1
3321	Gray iron foundries	91.8	2 072.2	74.8	143.5	1 573.9	3 465.9	3 006.9	6 498.3	223.1	748.9
3322	Malleable iron foundries	5.4	125.2	4.0	7.1	78.6	213.3	111.9	324.0	6.6	25.2
3324	Steel investment foundries	15.2	291.9	11.3	22.2	190.9	589.0	354.9	939.6	21.5	165.5
3325	Steel foundries, n.e.c.	25.4	540.8	19.0	35.1	374.8	815.5	676.1	1 518.4	45.3	287.6
333	Primary nonferrous metals	40.8	1 255.5	30.3	58.7	895.2	3 113.0	9 464.0	13 022.6	733.1	2 023.7
3331	Primary copper	6.7	203.7	5.3	10.8	153.6	656.9	2 763.0	3 467.0	272.5	423.6
3332	Primary lead	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3333	Primary zinc	1.6	47.2	1.1	2.2	29.1	99.7	270.5	373.2	5.4	74.0
3334	Primary aluminum	21.4	712.9	16.5	32.0	529.0	1 566.8	4 158.7	6 089.9	390.7	993.1
3339	Primary nonferrous metals, n.e.c.	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
334	Secondary nonferrous metals	17.2	376.3	12.3	24.2	230.1	833.1	4 181.9	5 135.9	54.4	762.9
3341	Secondary nonferrous metals	17.2	376.3	12.3	24.2	230.1	833.1	4 181.9	5 135.9	54.4	762.9
335	Nonferrous rolling and drawing	161.9	3 773.2	120.0	237.3	2 586.6	7 560.4	20 264.7	27 854.8	816.0	5 956.9
3351	Copper rolling and drawing	22.8	511.2	17.1	33.9	357.5	1 193.2	2 663.5	3 855.1	94.0	568.6
3353	Aluminum sheet, plate, and foil	28.1	907.4	21.9	42.9	697.8	1 503.9	6 859.9	8 453.5	296.9	2 295.7
3354	Aluminum extruded products	26.0	538.4	20.1	40.9	379.9	915.6	2 193.7	3 057.3	96.8	587.6
3355	Aluminum rolling and drawing, n.e.c.	2.2	57.9	1.6	3.2	40.7	139.3	725.9	844.3	9.0	135.2
3356	Nonferrous rolling and drawing, n.e.c.	18.9	466.3	12.0	22.7	260.2	1 049.8	2 299.1	3 323.8	99.3	1 064.2
3357	Nonferrous wire drawing and insulating	63.9	1 291.9	47.1	93.6	850.4	2 762.5	5 522.7	8 320.8	219.9	1 305.5
336	Nonferrous foundries	74.2	1 459.9	60.3	116.5	1 057.3	2 776.2	2 414.8	5 171.6	158.7	562.9
3361	Aluminum foundries	47.8	972.7	39.2	76.7	724.3	1 810.5	1 630.9	3 436.5	98.3	326.0
3362	Brass, bronze, and copper foundries	11.3	204.0	8.9	16.3	140.4	398.7	311.4	707.9	22.3	98.4
3369	Nonferrous foundries, n.e.c.	15.1	283.2	12.2	23.5	192.7	567.0	472.5	1 027.2	38.0	138.5
339	Miscellaneous primary metal products	25.3	514.9	18.4	35.8	331.2	1 119.3	969.9	2 089.1	53.6	453.6
3398	Metal heat treating	16.9	314.9	12.5	24.6	210.5	691.7	377.9	1 064.1	26.8	102.9
3399	Primary metal products, n.e.c.	8.4	200.0	5.9	11.2	120.7	427.6	592.0	1 025.0	26.9	350.7
34	Fabricated metal products	1 418.0	28 823.7	1 050.4	2 072.8	18 979.3	61 326.8	60 963.1	122 119.0	2 772.7	21 553.5
341	Metal cans and shipping containers	56.4	1 544.4	46.6	94.3	1 206.6	4 196.6	8 029.9	12 114.2	201.7	1 548.2
3411	Metal cans	46.2	1 344.3	38.5	78.3	1 062.9	3 757.0	7 276.2	10 961.5	178.1	1 326.3
3412	Metal barrels, drums, and pails	10.2	200.1	8.1	15.9	143.8	439.6	753.7	1 152.7	23.6	221.9
342	Cutlery, hand tools, and hardware	142.3	2 819.7	108.4	210.4	1 908.5	6 723.9	4 371.8	11 104.0	289.5	2 205.0
3421	Cutlery	12.2	222.1	9.7	18.3	155.7	723.5	238.1	972.3	34.2	173.9
3423	Hand and edge tools, n.e.c.	40.0	735.0	29.6	56.0	462.0	1 751.9	1 079.2	2 869.6	79.7	719.8
3425	Hand saws and saw blades	7.8	145.1	5.6	11.0	90.6	300.6	211.5	509.3	13.3	111.5
3429	Hardware, n.e.c.	82.3	1 717.4	63.5	125.1	1 200.2	3 947.9	2 843.0	6 752.8	162.3	1 199.9
343	Plumbing and heating, except electric	49.0	872.2	35.3	69.4	547.7	2 208.1	2 081.3	4 259.1	71.5	840.2
3431	Metal sanitary ware	7.7	159.2	6.0	12.6	116.1	392.8	356.6	737.2	11.1	141.2
3432	Plumbing fittings and brass goods	15.4	265.6	12.0	23.4	180.9	817.8	759.3	1 557.4	28.3	294.1
3433	Heating equipment, except electric	25.9	447.4	17.3	33.4	250.7	997.4	965.4	1 964.5	32.1	404.9
344	Fabricated structural metal products	399.6	7 689.1	284.0	554.7	4 733.0	15 004.1	18 613.4	33 578.1	603.6	6 035.3
3441	Fabricated structural metal	93.8	1 842.4	67.2	134.5	1 169.9	3 219.1	4 759.6	7 959.4	133.6	1 348.6
3442	Metal doors, sash, and trim	70.5	1 110.9	52.0	98.5	672.0	2 385.6	2 857.4	5 202.7	95.0	867.0
3443	Fabricated plate work (boiler shops)	88.5	1 921.1	61.6	119.3	1 200.8	3 459.9	3 433.7	7 076.7	135.8	1 324.9
3444	Sheet metal work	81.8	1 584.7	58.9	114.8	980.2	3 282.7	4 006.2	7 166.1	135.0	1 441.1
3446	Architectural metal work	22.8	400.9	16.7	33.9	257.5	772.2	708.1	1 481.7	21.6	263.1
3448	Prefabricated metal buildings	22.3	424.3	14.6	28.3	230.2	970.2	1 300.1	2 249.7	49.3	430.5
3449	Miscellaneous metal work	19.9	404.8	13.0	25.4	222.4	914.4	1 548.3	2 441.8	33.2	360.1
345	Screw machine products, bolts, etc.	90.4	1 778.0	68.6	138.2	1 207.9	3 673.3	2 590.7	6 235.0	180.0	1 291.5
3451	Screw machine products	40.9	737.6	33.0	66.6	518.1	1 448.6	898.9	2 337.8	59.9	315.8
3452	Bolts, nuts, rivets, and washers	49.5	1 040.4	35.7	71.6	689.8	2 224.6	1 691.8	3 897.3	120.1	975.7
346	Metal forgings and stampings	240.0	5 634.5	189.9	384.2	4 093.5	11 263.2	11 431.2	22 654.4	581.0	3 101.3
3462	Iron and steel forgings	25.0	597.4	18.5	33.8	402.6	1 103.3	1 247.2	2 380.7	80.2	477.9
3463	Nonferrous forgings	8.6	225.7	6.1	11.2	142.1	540.7	572.9	1 151.5	53.7	345.8
3465	Automotive stampings	96.6	2 729.6	81.1	172.2	2 175.5	5 409.5	5 846.8	11 176.4	234.9	973.0
3466	Crowns and closures	7.1	161.1	5.7	11.4	121.6	373.0	494.9	866.5	19.8	157.6
3469	Metal stampings, n.e.c.	102.9	1 920.7	78.6	155.6	1 251.8	3 836.7	3 269.3	7 079.3	192.5	1 147.1
347	Metal services, n.e.c.	98.9	1 541.3	78.1	158.1	1 076.4	2 932.4	2 348.2	5 241.4	168.6	515.0
3471	Plating and polishing	65.7	961.6	52.5	104.9	680.4	1 777.9	1 113.0	2 849.4	79.7	253.4
3479	Metal coating and allied services	33.2	579.6	25.7	53.2	396.0	1 154.5	1 235.2	2 391.9	88.9	261.6
348	Ordnance and accessories, n.e.c.	77.1	1 817.1	49.2	95.2	986.8	3 961.8	1 473.0	5 366.2	108.0	902.6
3482	Small arms ammunition	10.0	238.4	7.1	14.3	150.4	581.1	250.7	837.6	25.8	193.6
3483	Ammunition, except for small arms, n.e.c.	25.9	565.9	17.3	33.6	312.9	1 344.6	1 247.4	2 597.0	58.4	466.3
3484	Small arms	14.4	296.5	10.4	19.6	179.9	678.3	235.3	938.8	32.4	304.7
3489	Ordnance and accessories, n.e.c.	26.7	716.2	14.3	27.7	343.6	1 361.9	298.4	1 575.8	17.3	293.7
349	Miscellaneous fabricated metal products	264.3	5 127.4	190.2	368.2	3 218.8	11 363.4	10 023.6	21 566.5	568.7	5 114.5
3493	Steel springs, except wire	4.9	102.5	3.7	7.3	67.9	208.3	205.0	414.5	5.9	86.3
3494	Valves and pipe fittings	100.9	2 147.5	65.8	126.9	1 225.2	4 827.4	3 271.5	8 201.3	274.4	2 645.1
3495	Wire springs	19.7	339.8	16.3	31.0	245.5	690.8	585.2	1 270.2	42.9	138.0
3496	Miscellaneous fabricated wire products	19.7	630.3	28.6	48.1	375.9	1 344.6	1 247.4	2 597.0	58.4	466.3
3497	Metal foil and leaf	10.5	249.7	7.7	15.5	173.8	702.3	1 228.8	1 907.5	41.9	313.4
3498	Fabricated pipe and fittings	29.3	596.1	21.7	42.2	399.1	1 207.2	1 460.2	2 776.1	47.8	751.0
3499	Fabricated metal products, n.e.c.	61.1	1 061.5	46.5	89.5	700.9	2 382.9	2 025.5	4 399.8	97.3	714.4

See footnotes at end of table.

1982														Standard error of estimate (percent) for column—			SIC code
All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expendi- tures (million dollars)	End-of-yr. inventories (million dollars)								
Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						A	F	I					
K	L	M	N	O	P	Q	R	S	T								
854.1	20 602.7	637.7	1 166.8	14 465.8	33 291.4	68 791.4	104 666.8	4 666.1	23 857.8	1	1	1	33				
365.7	10 262.0	266.7	471.2	7 271.6	14 721.5	30 299.4	46 720.2	2 425.1	12 502.3	1	1	1	331				
295.8	8 677.9	215.2	375.7	6 181.6	11 763.3	23 568.7	36 824.4	2 170.2	10 043.6	1	1	1	3312				
5.3	123.5	3.9	7.0	85.5	180.3	494.2	707.5	23.8	371.0	1	1	3	3313				
22.2	444.5	16.4	31.3	298.4	941.8	1 436.7	2 420.9	31.4	498.6	2	4	8	3314				
15.4	367.9	10.9	19.7	245.6	623.3	2 348.2	3 005.1	45.2	682.8	1	4	7	3316				
27.0	648.1	20.3	37.6	460.6	1 212.7	2 451.7	3 762.2	124.5	906.4	3	2	7	3317				
157.4	3 113.1	123.9	222.0	2 248.3	5 361.5	4 142.9	9 641.5	482.4	1 251.2	2	2	5	332				
97.3	1 965.0	78.2	139.8	1 463.0	3 310.5	2 840.4	6 202.2	338.0	750.0	1	1	7	3321				
6.5	135.7	4.8	8.2	89.3	206.3	112.9	323.2	11.9	25.3	6	3	13	3322				
16.8	299.4	12.6	24.4	197.2	635.7	363.3	1 024.6	32.9	162.6	2	2	8	3324				
36.9	713.0	28.4	49.6	498.8	1 209.0	826.3	2 091.4	99.6	313.2	8	10	6	3325				
43.9	1 306.6	31.9	62.2	928.3	2 310.9	9 057.4	11 320.8	412.4	2 475.5	1	1	1	333				
7.6	216.9	5.9	12.0	169.0	440.4	2 630.9	3 077.5	112.8	445.9	1	1	1	3331				
2.2	57.3	1.7	3.3	43.5	94.8	476.1	559.3	17.4	90.8	(D)	(D)	(D)	3332				
2.0	54.1	1.5	3.0	36.4	60.6	262.6	334.0	17.4	78.8	1	1	1	3333				
22.9	733.1	16.9	32.3	525.1	1 133.9	3 916.0	5 037.1	181.2	1 389.3	1	1	1	3334				
9.2	245.2	6.0	11.5	154.3	581.3	1 771.8	2 312.9	83.6	470.8	(D)	(D)	(D)	3339				
19.2	402.2	13.5	26.3	246.4	619.8	4 134.7	4 851.9	146.4	842.0	1	4	5	334				
19.2	402.2	13.5	26.3	246.4	619.8	4 134.7	4 851.9	146.4	842.0	1	4	5	3341				
166.7	3 362.2	121.8	233.4	2 450.4	6 821.7	18 035.8	25 462.9	933.3	5 830.1	1	2	2	335				
23.3	468.2	17.2	32.6	322.9	957.7	2 267.0	3 270.0	123.9	557.1	1	4	1	3351				
27.7	862.1	21.0	39.9	639.9	1 154.0	5 898.4	7 213.8	260.4	2 300.2	1	1	1	3353				
25.4	499.0	19.3	38.0	344.1	859.3	1 778.5	2 673.1	114.7	489.7	2	2	10	3354				
2.6	65.0	1.9	3.5	44.2	30.7	535.3	670.8	5.5	117.3	1	1	1	3355				
20.0	472.2	12.6	24.0	263.7	993.3	2 293.9	3 418.3	134.4	1 070.2	1	5	2	3356				
67.6	1 269.6	49.8	95.5	835.6	2 826.6	5 262.8	8 216.9	294.4	1 295.6	1	3	5	3357				
75.4	1 385.1	60.7	114.3	1 002.8	2 458.1	2 110.1	4 603.2	172.2	489.0	1	2	8	336				
49.2	926.2	40.2	76.2	686.6	1 612.6	1 384.0	3 013.6	126.4	281.1	1	2	5	3361				
11.8	201.8	9.2	16.6	138.5	381.9	311.6	702.2	19.3	92.7	3	5	44	3362				
14.4	257.1	11.4	21.5	175.7	463.6	414.5	887.5	26.5	115.2	3	5	12	3369				
25.9	497.5	19.1	37.4	317.9	997.9	1 011.1	2 066.3	94.2	467.7	4	5	13	339				
17.7	324.2	13.5	26.9	216.6	684.5	416.0	1 128.2	42.5	98.1	3	4	23	3398				
8.2	173.4	5.6	10.6	101.4	313.5	595.2	938.1	51.7	369.6	9	11	12	3399				
1 459.7	28 282.6	1 073.3	2 070.4	18 455.9	58 927.6	59 393.8	119 444.0	3 685.8	21 136.1	1	1	3	34				
58.9	1 533.0	48.4	96.3	1 202.7	4 443.3	7 709.8	12 171.5	269.7	1 504.3	2	2	2	341				
49.0	1 334.5	40.8	81.5	1 066.4	4 071.7	7 046.8	11 132.8	247.0	1 338.8	1	1	1	3411				
9.9	198.6	7.6	14.8	136.3	371.7	663.0	1 038.7	22.7	165.5	6	16	13	3412				
140.9	2 584.5	106.3	200.1	1 723.3	6 040.7	3 950.5	10 081.7	335.6	2 085.8	1	1	5	342				
13.0	223.7	10.5	20.1	161.2	683.6	256.3	938.0	44.0	185.4	1	1	11	3421				
40.4	706.5	29.8	55.4	448.8	1 785.2	1 103.5	2 915.5	93.2	720.1	2	2	5	3423				
7.4	133.4	5.3	10.5	83.2	251.8	220.1	487.3	24.1	115.8	7	6	21	3425				
80.1	1 520.9	60.8	114.1	1 030.2	3 320.1	2 370.6	5 740.9	174.3	1 064.5	1	1	8	3429				
47.9	820.7	34.0	63.8	499.1	2 022.6	1 940.7	4 003.3	96.9	794.8	1	1	7	343				
7.5	139.4	5.7	10.8	97.0	308.1	303.4	620.3	15.7	127.9	1	2	9	3431				
14.4	237.9	11.1	21.2	156.9	672.1	613.8	1 300.5	37.2	258.5	1	1	3	3432				
26.0	443.4	17.1	31.8	245.2	1 042.4	1 023.5	2 082.5	44.0	408.5	2	1	15	3433				
421.9	7 897.2	300.4	586.7	4 955.8	15 466.3	18 944.1	34 904.3	751.6	5 847.1	1	1	5	344				
103.6	1 990.2	75.5	151.5	1 236.4	3 639.1	5 015.1	8 853.1	188.9	1 383.0	2	2	7	3441				
66.3	1 015.8	47.6	92.0	608.1	2 175.1	2 514.1	4 685.3	98.6	755.8	2	2	10	3442				
102.9	2 180.3	73.3	141.5	1 393.2	4 135.7	3 924.5	8 225.3	200.7	1 516.5	2	2	7	3443				
81.1	1 494.6	58.9	114.4	949.8	3 024.1	3 767.8	6 853.9	145.6	1 185.3	2	3	13	3444				
22.8	366.0	16.0	30.7	230.6	705.0	658.0	1 367.5	26.8	242.3	3	3	14	3446				
23.7	435.7	15.2	29.9	246.1	877.4	1 410.5	2 324.6	42.8	403.4	2	3	20	3448				
21.5	414.7	14.1	26.7	234.8	909.9	1 653.9	2 594.6	44.9	359.9	3	3	8	3449				
94.0	1 726.9	70.9	134.3	1 147.8	3 309.2	2 419.6	5 834.4	187.0	1 242.0	1	2	13	345				
41.8	718.9	33.7	65.2	503.2	1 328.0	831.6	2 173.1	77.2	297.0	2	2	14	3451				
52.2	1 008.1	37.2	69.1	644.6	1 981.2	1 588.1	3 661.3	109.8	945.0	1	3	19	3452				
236.3	5 110.2	183.7	353.5	3 644.8	9 709.8	10 139.7	20 057.1	945.0	2 881.5	2	2	4	346				
30.7	690.7	22.4	40.7	462.9	1 347.6	1 520.7	2 943.5	158.0	618.7	1	2	3	3462				
7.9	200.7	5.7	10.6	128.7	461.2	569.3	1 033.8	100.3	302.6	1	1	3	3463				
90.5	2 292.6	74.5	145.2	1 792.4	4 114.4	4 621.6	8 777.4	465.0	804.7	1	2	5	3465				
6.7	143.5	5.4	10.6	106.8	372.4	441.7	804.8	21.6	140.7	2	6	11	3466				
100.4	1 782.7	75.6	146.3	1 154.0	3 414.2	2 986.4	6 437.7	200.1	1 014.7	4	4	10	3469				
96.9	1 518.2	77.2	152.2	1 035.5	2 896.5	2 234.3	5 124.8	200.2	517.6	4	3	17	347				
61.9	919.0	49.7	98.1	631.9	1 693.9	1 038.4	2 731.4	109.2	225.5	6	3	14	3471				
35.0	599.1	27.5	54.1	403.7	1 202.6	1 195.9	2 393.4	91.0	292.1	3	4	29	3479				
79.4	1 779.7	50.5	95.3	941.1	3 441.5	1 568.4	4 992.9	138.4	887.4	1	1	2	348				
10.1	221.6	7.4	14.1	142.7	518.4	625.6	799.8	23.3	210.5	1	1	2	3482				
24.4	497.5	15.0	29.1	265.0	1 125.0	1 757.1	56.2	108.6	2	2	3	3483					
17.4	336.2	13.0	25.0	210.3	715.7	339.9	1 032.1	34.3	348.8	1	1	3	3484				
27.5	722.4	14.3	27.1	323.1	1 082.4	337.7	1 403.8	22.4	222.5	1	2	7	3489				
283.6	5 312.1	202.0	388.3	3 305.7	11 597.6	10 486.5	22 274.1	761.5	5 377.7	1	2	6	349				
5.2	103.5	3.8	6.8	67.3	204.5	204.8	413.5	6.9	86.0	2	2	15	3493				
115.2	2 334.6	75.3	144.2	1 343.5	5 224.4	3 734.8	9 039.9	363.9	2 838.9	1	2	9	3494				
17.9	294.1	14.5	27.5	208.8	596.8	498.7	1 104.3	31.9	116.4	9	8	27	3495				
36.8	580.3	27.8	67.0	375.1	1 167.3	1 172.0	2 358.4	53.2	443.0	2	3	21	3496				
10.8	243.1	8.0	16.0	172.4	662.8	1 169.7	1 846.3	40.1	287.2	1	1	12	3497				
32.7	650.7	23.8	46.3	423.5	1 437.5	1 666.7	3 105.8	137.2	897.0	2	7	16	3498				
65.0	1 105.8	48.8	94.2	715.2	2 304.5	2 039.8	4 406.0	114.1	709.1	2	3	9	3499				

Table 2. Statistics for Industry Groups and Industries: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983									
		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
A	B	C	D	E	F	G	H	I	J		
35	Machinery, except electrical	1 989.5	45 106.7	1 234.2	2 380.2	23 593.4	94 752.8	81 391.7	178 962.5	6 425.2	43 882.7
351	Engines and turbines	95.6	2 641.7	60.7	113.7	1 528.1	5 792.7	5 995.3	12 183.5	489.6	2 860.9
3511	Turbines and turbine generator sets	25.0	743.0	14.9	29.0	363.7	1 699.8	1 267.4	3 197.8	114.0	1 254.5
3519	Internal combustion engines, n.e.c.	70.6	1 898.8	45.8	84.7	1 164.4	4 092.9	4 727.9	8 985.7	375.6	1 606.3
352	Farm and garden machinery	100.8	2 165.6	67.3	124.6	1 268.0	5 593.0	5 973.0	11 562.5	186.9	2 664.6
3523	Farm machinery and equipment	82.0	1 827.9	53.4	98.1	1 048.4	4 526.2	4 417.5	8 982.7	143.7	2 090.4
3524	Lawn and garden equipment	18.8	337.6	13.9	26.6	219.6	1 066.9	1 555.5	2 579.8	43.2	574.3
353	Construction and related machinery	246.8	5 794.6	146.7	269.1	3 023.4	11 473.3	11 564.8	24 762.1	798.3	9 883.4
3531	Construction machinery	91.9	2 262.6	57.9	99.7	1 265.4	4 574.0	4 907.2	10 311.8	323.4	3 819.3
3532	Mining machinery	16.9	373.2	9.3	17.0	179.3	736.5	696.8	1 514.4	37.9	649.4
3533	Oil field machinery	62.9	1 492.7	35.1	67.6	763.6	3 330.1	2 605.2	6 586.4	310.9	3 945.6
3534	Elevators and moving stairways	11.6	270.1	7.2	14.5	141.7	545.7	569.5	1 128.4	22.1	214.3
3535	Conveyors and conveying equipment	31.5	701.4	17.5	34.1	312.0	1 197.6	1 288.0	3 101.6	42.3	476.8
3536	Hoists, cranes, and monorails	10.9	234.8	6.4	12.0	118.1	417.5	393.4	840.2	6.5	234.0
3537	Industrial trucks and tractors	21.0	459.8	13.3	24.4	243.4	672.0	1 104.8	1 808.1	55.2	544.0
354	Metalworking machinery	245.8	5 496.3	172.7	339.5	3 468.1	9 760.0	5 412.9	15 541.6	512.6	3 962.9
3541	Machine tools, metal cutting types	43.0	997.1	24.5	45.9	512.1	1 612.7	1 400.0	2 880.9	104.8	1 281.6
3542	Machine tools, metal forming types	15.3	357.0	9.6	17.8	196.0	629.6	454.9	1 142.3	28.1	431.6
3544	Special dies, tools, jigs, and fixtures	97.9	2 294.4	78.2	161.1	1 667.5	3 801.7	1 537.1	5 310.6	192.4	590.5
3545	Machine tool accessories	47.3	958.6	32.7	62.7	607.2	1 821.9	800.1	2 675.7	105.1	784.1
3546	Power driven hand tools	19.5	385.1	13.3	24.9	223.2	1 015.9	788.7	1 801.9	45.4	398.8
3547	Rolling mill machinery	4.1	94.1	2.5	4.5	51.5	114.2	182.0	373.6	5.3	109.7
3549	Metalworking machinery, n.e.c.	18.8	409.8	11.9	22.6	215.7	763.9	550.0	1 356.5	31.4	366.6
355	Special industry machinery	162.6	3 620.2	94.9	184.1	1 823.0	7 040.3	5 445.8	12 754.3	257.0	3 289.2
3551	Food products machinery	30.4	682.7	18.8	36.7	373.3	1 284.0	976.0	2 329.8	43.1	659.4
3552	Textile machinery	17.5	324.3	12.0	23.4	188.4	534.5	454.7	1 038.2	35.4	267.0
3553	Woodworking machinery	8.8	172.1	5.5	10.2	95.8	394.1	352.4	756.1	9.5	142.9
3554	Paper industries machinery	14.1	352.0	7.1	13.7	166.8	596.4	497.5	1 150.8	15.7	296.6
3555	Printing trades machinery	26.8	620.1	13.7	26.8	276.5	1 448.3	1 010.7	2 447.9	55.3	583.3
3559	Special industry machinery, n.e.c.	65.0	1 469.0	37.8	73.4	722.1	2 782.9	2 154.5	5 031.4	98.0	1 340.1
356	General industrial machinery	268.2	5 872.9	169.6	322.9	3 267.1	12 120.2	9 098.8	21 468.8	638.3	5 799.7
3561	Pumps and pumping equipment	54.4	1 275.7	30.7	57.9	637.4	2 796.6	2 161.7	5 076.0	151.1	1 552.1
3562	Ball and roller bearings	37.7	863.7	29.9	58.4	635.2	1 655.3	1 272.0	2 964.6	114.7	806.9
3563	Air and gas compressors	26.2	606.1	13.8	25.9	286.1	1 347.3	1 328.2	2 683.4	94.8	903.0
3564	Blowers and fans	26.8	528.8	16.9	32.6	280.5	1 131.6	915.8	2 055.9	34.7	366.6
3565	Industrial patterns	10.2	218.9	8.3	14.9	177.2	311.8	112.2	417.2	14.4	32.9
3566	Speed changers, drives, and gears	19.6	436.2	12.8	24.2	247.0	857.3	476.4	1 363.7	79.7	423.2
3567	Industrial furnaces and ovens	13.8	267.7	8.2	15.5	131.2	582.3	383.2	954.2	12.2	204.3
3568	Power transmission equipment, n.e.c.	22.7	497.0	15.8	29.3	302.7	980.0	686.5	1 672.8	48.4	499.3
3569	General industrial machinery, n.e.c.	56.8	1 178.8	33.2	64.2	569.9	2 458.0	1 762.8	4 281.0	88.4	1 011.2
357	Office and computing machines	420.8	10 621.3	185.1	366.5	3 307.5	24 466.5	24 024.0	48 173.4	2 608.1	10 515.0
3573	Electronic computing equipment	354.4	9 130.2	150.1	298.2	2 694.7	20 877.9	21 417.8	41 977.0	2 340.5	9 085.4
3574	Calculating and accounting machines	13.7	302.4	6.8	13.5	108.0	627.8	686.2	1 302.9	48.3	264.8
3576	Scales and balances, except laboratory	6.7	128.7	4.1	8.1	62.5	319.2	228.1	547.2	12.6	129.2
3579	Office machines, n.e.c., and typewriters	45.9	1 060.0	24.2	46.7	442.3	2 641.6	1 691.9	4 346.3	206.7	1 035.6
358	Refrigeration and service machinery	171.9	3 530.4	119.3	225.9	2 172.2	8 478.7	9 009.3	17 548.1	320.0	3 071.1
3581	Automatic merchandising machines	7.5	132.9	5.1	9.8	72.4	257.1	145.0	596.0	25.3	136.7
3582	Commercial laundry equipment	4.5	85.6	3.1	6.5	52.8	177.5	160.0	338.5	6.0	69.2
3585	Refrigeration and heating equipment	122.1	2 565.0	88.5	167.3	1 679.5	6 373.1	6 966.7	13 375.2	225.6	2 209.6
3586	Measuring and dispensing pumps	7.4	157.6	4.7	8.7	80.1	364.3	292.1	668.2	13.1	154.5
3589	Service industry machinery, n.e.c.	30.5	589.5	17.9	33.6	287.4	1 306.6	1 245.5	2 570.1	50.0	501.1
359	Miscellaneous machinery, except electrical	277.0	5 363.7	217.9	433.9	3 730.9	10 028.1	4 867.7	14 968.2	614.4	1 835.9
3592	Carburetors, pistons, rings, valves	29.8	745.5	23.2	46.7	543.9	1 542.5	928.4	2 485.0	71.1	326.9
3599	Machinery, except electrical, n.e.c.	247.2	4 618.2	194.7	387.1	3 187.0	8 485.6	3 939.3	12 483.2	543.3	1 509.0
36	Electric and electronic equipment	1 895.7	41 209.1	1 187.7	2 282.4	20 370.1	92 519.8	67 223.3	159 199.1	7 260.6	31 407.9
361	Electric distributing equipment	98.9	1 956.2	69.5	130.1	1 163.0	4 548.4	3 426.7	8 025.7	200.3	1 571.8
3612	Transformers	36.6	708.0	27.1	49.8	456.6	1 397.3	1 425.3	2 867.0	63.2	500.8
3613	Switchgear and switchboard apparatus	62.3	1 248.2	42.3	80.3	706.4	3 151.2	2 001.5	5 158.7	137.0	1 071.1
362	Electrical industrial apparatus	176.2	3 604.0	116.9	221.6	1 991.3	7 554.8	5 789.1	13 474.4	486.4	3 150.4
3621	Motors and generators	80.4	1 555.0	60.1	114.4	1 003.8	3 372.5	2 647.7	6 002.0	204.6	1 145.6
3622	Industrial controls	57.3	1 245.2	31.4	58.9	530.4	2 495.8	1 650.8	4 169.8	94.9	982.8
3623	Welding apparatus, electric	13.7	300.1	8.2	14.4	162.8	568.6	577.9	1 195.1	26.8	327.9
3624	Carbon and graphite products	10.8	246.1	7.5	15.2	151.4	476.9	446.9	994.6	125.0	504.4
3629	Electrical industrial apparatus, n.e.c.	13.9	257.6	9.7	18.8	142.8	641.0	465.8	1 112.8	35.2	189.6
363	Household appliances	128.5	2 418.9	100.7	191.5	1 710.8	6 725.3	7 866.1	14 487.2	291.7	2 401.9
3631	Household cooking equipment	26.5	488.7	19.7	39.4	323.7	1 276.9	1 862.0	3 075.8	69.4	590.8
3632	Household refrigerators and freezers	21.0	460.2	17.5	33.4	359.1	1 146.2	1 653.7	2 821.2	53.7	429.8
3633	Household laundry equipment	16.1	361.9	13.6	25.4	238.2	1 114.8	1 290.5	2 369.4	36.9	313.9
3634	Electric housewares and fans	36.0	543.3	28.1	51.0	348.6	1 639.6	1 548.7	3 186.2	66.1	588.9
3635	Household vacuum cleaners	10.1	189.4	6.7	12.4	122.0	556.7	423.6	970.6	23.4	149.7
3636	Sewing machines	3.1	61.4	2.1	4.0	30.3	121.5	61.7	185.1	5.7	89.4
3639	Household appliances, n.e.c.	15.7	313.9	13.0	25.9	238.9	869.7	1 026.0	1 879.0	36.6	240.6
364	Electric lighting and wiring equipment	159.7	2 941.7	119.8	229.1	1 907.1	7 469.1	5 867.3	13 216.7	299.0	2 361.1
3641	Electric lamps	20.6	418.4	17.2	31.9	324.5	1 512.5	896.8	2 388.8	61.3	216.8
3643	Current-carrying wiring devices	45.9	786.5	34.1	63.6	483.5	1 742.5	1 210.2	2 914.0	85.5	571.2
3644	Noncurrent-carrying wiring devices	24.5	511.2	17.1	33.9	316.3	1 194.3	1 132.0	2 309.4	47.5	587.4
3645	Residential lighting fixtures	23.4	328.9	18.4	34.9	209.9	818.3	729.9	1 529.5	15.7	314.0
3646	Commercial lighting fixtures	19.6	342.1	14.0	27.5	203.2	871.6	938.3	1 800.0	37.5	342.2
3647	Vehicular lighting equipment	13.9	344.1	10.7	21.6	250.0	790.9	501.4	1 282.1	34.4	138.7
3648	Lighting equipment, n.e.c.	11.8	210.5	8.4	15.8	119.7	539.0	458.6	992.9	17.1	190.9
365	Radio and TV receiving equipment	61.9	1 234.7	43.8	87.0	746.3	3 588.7	5 295.9	8 924.4	201.4	1 060.3
3651	Radio and TV receiving sets	45.3	935.9	32.5	64.8	594.2	2 096.6	4 648.4	6 772.8	166.7	893.0
3652	Phonograph records and prerecorded tape	16.6	298.8	11.3	22.2	152.1	1 492.1	647.5	2 151.6	34.8	167.3
366	Communication equipment	606.2	15 403.6	306.2	585.6	6 135.2	31 111.1	19 063.2	49 930.7	2 406.6	11 592.9
3661	Telephone and telegraph apparatus	128.0	3 124.4	81.3	149.5	1 621.0	6 725.8	6 789.6	13 527.2	592.1	3 356.1
3662	Radio and TV communication equipment	478.2	12 279.2	224.9	436.1	4 514.2					

See footnotes at end of table.

1982													SIC code	
All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expendi- tures (million dollars)	End-of-year inventories (million dollars)	Standard error of estimate (percent) for column 11—				
Number (1 000)	Payroll (million dollars)	Number (1 000)	Hours (millions)	Wages (million dollars)						A	F	I		
K	L	M	N	O	P	Q	R	S	T					
2 188.7	46 910.7	1 358.0	2 598.8	25 093.1	102 269.8	83 787.8	187 895.7	8 537.2	47 181.2	1	1	2	35	
112.0	2 849.7	71.3	132.8	1 654.3	6 069.3	6 646.7	13 039.7	727.8	3 277.5	1	1	2	351	
32.4	870.8	18.9	37.4	431.6	2 152.9	1 515.0	3 676.3	127.9	1 501.3	1	1	2	3511	
79.6	1 979.0	52.4	95.4	1 222.6	3 916.4	5 131.7	9 363.4	599.9	1 776.2	1	1	2	3519	
113.8	2 385.6	75.4	138.2	1 404.5	6 146.3	6 593.5	13 108.2	392.3	2 771.8	1	1	4	352	
98.1	2 067.4	62.9	113.6	1 205.8	5 200.8	5 217.8	10 743.0	341.2	2 232.2	1	1	5	3523	
17.8	318.1	12.4	24.6	198.7	945.5	1 375.7	2 365.2	51.1	539.6	2	2	4	3524	
325.8	7 332.3	197.7	365.1	3 976.4	16 453.3	15 556.4	32 037.5	1 578.1	11 893.9	1	1	3	353	
115.5	2 653.1	72.8	122.6	1 522.5	5 477.8	6 151.6	11 657.9	419.4	4 764.7	1	1	6	3531	
24.6	522.1	14.3	25.9	275.4	1 113.0	991.7	2 198.3	66.0	756.1	1	1	1	3532	
98.5	2 341.9	60.0	120.1	1 292.4	6 545.8	4 786.0	11 195.1	903.2	4 748.6	2	3	5	3533	
13.0	270.7	7.7	15.1	137.0	589.4	557.6	1 120.7	31.2	238.2	6	4	10	3534	
36.6	758.1	20.4	39.8	346.7	1 472.7	1 455.7	2 846.7	58.0	551.4	2	2	6	3535	
13.7	290.7	8.2	15.3	152.3	532.2	504.1	1 085.6	20.0	274.6	2	4	11	3536	
24.0	494.7	14.3	26.2	250.1	722.4	1 109.7	1 922.2	80.3	560.2	2	2	4	3537	
283.2	6 086.4	197.3	382.7	3 862.5	11 285.3	6 326.9	18 149.6	713.2	4 396.0	1	2	6	354	
58.3	1 335.0	33.9	63.6	709.2	2 516.2	1 598.3	4 411.5	157.7	1 435.5	2	3	6	3541	
19.5	438.1	12.1	23.2	245.3	777.8	574.6	1 428.7	43.4	511.5	2	6	20	3542	
102.9	2 293.3	81.7	164.9	1 684.9	3 780.5	1 535.4	5 374.9	232.9	621.8	2	3	12	3544	
55.1	1 069.7	38.8	73.5	690.4	2 164.3	980.3	3 165.3	143.9	906.5	2	14	3	3545	
21.6	393.6	14.5	25.9	228.6	940.3	791.5	1 795.3	68.1	415.0	1	1	3	3546	
5.1	125.1	3.3	6.1	70.8	278.4	246.8	502.9	14.8	168.1	5	38	16	3547	
20.7	431.5	13.0	25.4	233.3	829.9	600.0	1 471.1	52.4	337.6	3	11	9	3549	
182.5	3 748.1	108.4	210.5	1 953.5	7 415.4	5 571.8	13 127.8	392.6	3 496.8	2	2	4	355	
32.7	695.3	20.6	40.1	390.3	1 355.7	957.2	2 320.8	55.0	700.6	3	4	9	3551	
19.4	322.9	12.8	23.9	184.5	641.6	424.1	1 059.0	46.1	298.7	2	4	21	3552	
9.7	173.7	5.9	10.9	91.3	387.4	332.2	730.7	20.2	148.7	8	12	12	3553	
17.8	405.8	10.0	20.2	201.5	762.6	622.5	1 387.4	29.4	360.3	8	10	12	3554	
28.3	598.4	15.5	31.3	294.3	1 250.6	978.8	2 281.1	72.6	570.2	2	2	6	3555	
74.5	1 551.9	43.6	84.2	791.6	3 017.6	2 257.0	5 348.9	169.3	1 418.3	3	3	5	3559	
313.6	6 492.9	197.3	375.6	3 642.4	13 587.4	10 383.3	24 458.8	903.5	6 374.1	1	1	3	356	
68.4	1 479.7	39.1	74.5	769.3	3 352.9	2 699.5	6 198.3	227.5	1 835.9	2	2	3	3561	
43.8	910.4	33.6	61.6	647.8	1 649.1	1 220.0	3 149.5	164.8	891.0	2	2	3	3562	
31.8	709.3	17.3	34.1	344.0	1 470.1	1 698.3	3 270.0	118.1	985.6	1	2	5	3563	
29.8	553.6	19.1	37.2	306.0	1 160.0	999.8	2 173.5	57.1	388.7	2	2	11	3564	
9.8	217.6	8.1	14.8	173.4	347.6	97.6	452.3	15.8	29.6	5	8	49	3565	
24.1	503.9	15.8	29.7	298.4	1 020.9	552.7	1 631.6	93.2	457.8	2	2	8	3566	
16.1	312.6	9.2	17.8	149.2	624.9	465.2	1 102.2	21.1	204.4	4	3	12	3567	
26.5	553.0	18.0	33.1	335.2	1 144.1	763.1	1 926.8	74.7	508.3	3	3	7	3568	
62.7	1 252.8	37.1	72.8	619.2	2 617.9	1 887.0	4 554.7	131.2	1 072.4	1	2	8	3569	
404.0	9 436.9	173.5	336.6	2 881.5	23 386.0	19 952.4	43 027.5	2 648.4	9 977.9	1	1	2	357	
337.9	8 052.7	140.9	274.5	2 352.9	19 597.8	17 480.5	36 767.1	2 381.3	8 445.6	1	1	2	3573	
15.4	292.2	7.2	13.9	107.8	815.0	676.5	1 487.3	52.7	320.6	1	2	2	3574	
7.0	128.3	4.2	8.0	62.2	284.0	222.7	516.4	15.9	122.6	4	4	29	3576	
43.7	963.7	21.2	40.1	359.5	2 689.3	1 572.7	4 256.7	198.5	1 089.1	1	2	4	3579	
171.7	3 343.6	116.4	218.9	2 024.3	8 120.7	8 140.6	16 449.9	414.7	2 998.1	1	1	4	358	
7.4	123.3	5.1	9.8	72.3	215.0	267.1	479.4	13.1	118.2	1	7	35	3581	
4.7	83.0	3.2	6.4	49.6	170.0	147.8	321.0	4.9	64.1	1	5	23	3582	
120.5	2 393.2	85.0	159.3	1 532.6	6 049.4	6 190.6	12 390.3	329.3	2 141.9	1	1	2	3585	
8.1	160.0	5.2	9.9	86.9	365.1	299.7	676.2	12.8	157.2	1	1	2	3586	
31.0	584.0	17.8	33.5	283.0	1 321.3	1 235.4	2 583.0	54.6	157.6	2	3	9	3589	
282.1	5 235.4	220.9	436.4	3 693.7	9 806.1	4 616.2	14 496.7	766.7	1 995.1	2	2	14	359	
31.2	691.9	24.0	46.0	492.4	1 385.1	795.6	2 224.5	106.0	353.5	1	1	11	3592	
250.9	4 543.4	196.8	390.4	3 201.4	8 421.0	3 820.6	12 272.2	660.7	1 641.6	2	3	16	3590	
1 914.5	38 413.8	1 198.2	2 268.5	19 281.0	84 605.4	63 259.1	147 943.6	7 542.4	30 004.1	1	1	1	36	
105.3	1 994.6	73.2	134.9	1 179.3	4 584.1	3 375.5	8 108.2	219.7	1 593.6	1	1	2	361	
39.0	732.1	28.5	51.3	461.0	1 439.1	1 421.8	2 916.0	76.5	537.2	1	1	2	3612	
66.3	1 262.5	44.7	83.6	718.3	3 145.0	1 953.8	5 192.2	143.2	1 058.4	1	1	3	3613	
191.4	3 705.5	125.1	235.5	2 067.2	7 918.7	5 755.1	13 825.1	679.7	3 341.9	1	1	3	362	
84.2	1 546.4	61.0	114.4	984.2	3 435.8	2 526.4	6 080.1	275.4	1 087.9	1	1	4	3621	
64.0	1 279.7	34.4	65.3	558.9	2 604.0	1 665.3	4 329.1	178.8	1 050.3	3	2	6	3622	
15.0	340.8	10.0	17.8	204.8	684.2	643.8	1 353.2	44.4	372.7	4	4	16	3623	
12.0	258.2	8.4	16.6	164.8	550.1	463.3	971.4	151.8	600.1	3	3	5	3624	
16.3	280.4	11.3	21.5	154.5	644.7	456.3	1 111.3	29.3	230.9	2	2	11	3629	
129.4	2 223.1	98.0	180.0	1 529.5	5 775.9	6 712.4	12 643.5	305.0	2 299.3	1	1	2	363	
23.7	402.1	17.0	31.4	254.8	941.4	1 408.3	2 414.9	51.5	497.1	1	1	1	3631	
22.4	441.2	18.4	33.1	340.4	1 032.3	1 460.5	2 470.7	79.1	432.4	1	1	1	3632	
16.5	335.4	13.4	23.4	261.1	984.1	1 116.2	2 122.2	35.1	286.4	1	1	1	3633	
38.7	539.1	29.3	54.4	341.9	1 511.9	1 556.2	3 128.4	73.9	605.8	2	5	5	3634	
8.4	151.1	5.2	9.5	94.6	463.6	294.9	775.7	17.1	121.1	1	1	1	3635	
5.5	101.9	3.4	6.5	57.1	168.8	121.3	299.7	8.6	138.5	1	5	19	3636	
14.2	252.4	11.4	21.7	180.2	673.8	754.9	1 432.0	39.5	217.9	1	1	5	3639	
159.4	2 718.2	117.4	218.0	1 739.4	6 619.0	5 312.2	12 047.8	340.1	2 151.4	2	2	3	364	
22.4	396.9	18.9	33.3	319.3	1 283.7	792.7	2 072.6	60.5	193.7	1	2	1	3641	
44.5	899.8	31.9	57.2	421.6	1 464.2	996.7	2 510.3	88.8	500.0	6	4	9	3643	
26.3	509.9	18.1	35.3	314.0	1 218.7	1 130.5	2 399.6	69.1	575.2	1	3	3	3644	
22.2	308.8	16.9	31.5	194.7	708.7	634.5	1 351.8	17.9	280.2	2	3	9	3645	
18.9	313.3	13.4	25.7	184.2	774.8	892.3	1 671.9	32.0	290.3	3	2	7	3646	
12.9	281.6	9.6	18.8	193.4	602.4	411.2	1 013.6	43.8	122.9	2	1	2	3647	
12.2	207.9	8.5	16.1	121.2	566.4	454.4	1 028.0	28.0	188.6	2	3	9	3648	
65.6	1 154.3	47.2	88.9	705.6	3 200.1	4 546.0	7 832.8	140.9	1 078.1	1	1	5	365	
48.4	862.3	35.4	65.3	546.2	2 010.6	3 967.2	6 063.9	126.4	888.4	1	2	1	3651	
17.1	292.0	11.8	23.6	159.4	1 189.5	578.8	1 768.9	36.4	189.8	3	1	26	3652	
600.6	13 979.1	314.0	597.6	5 846.8	28 299.2	18 399.4	46 426.0	2 297.7	10 760.7	1	1	2	366	
136.5	3 021.2	85.6	158.4	1 614.5	7 120.8	6 357.8	13 394.4	513.1	2 655.0	2	1	3	3661	
464.1	10 957.9	228.4	439.2	4 232.3	21 178.4	12 041.6	33 031.6	1 784.6	7 905.7	1	1	2	366	

Table 2. Statistics for Industry Groups and Industries: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983										
		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)	
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
							A	B	C	D	E	F
36	Electric and electronic equipment—Con.											
367	Electronic components and accessories.....	515.0	10 605.4	329.0	642.4	5 015.2	23 609.8	13 911.9	37 193.6	2 897.2	6 841.3	
3671	Electron tubes, all types.....	30.6	703.5	22.0	43.5	453.5	1 437.3	965.6	2 417.7	88.8	352.7	
3674	Semiconductors and related devices.....	169.3	4 287.1	84.1	161.7	1 464.9	9 991.3	4 640.7	14 325.4	1 831.6	2 625.0	
3675	Electronic capacitors.....	27.9	403.1	21.0	40.5	268.5	813.8	539.0	1 330.6	68.4	333.3	
3676	Electronic resistors.....	15.8	246.7	11.0	20.7	125.4	543.0	214.3	761.6	38.6	163.2	
3677	Electronic coils and transformers.....	26.2	346.3	21.2	39.6	219.4	625.9	415.2	1 029.4	31.8	160.6	
3678	Electronic connectors.....	36.7	697.9	26.7	52.6	428.5	1 880.0	1 042.5	2 199.0	146.7	590.3	
3679	Electronic components, n.e.c.....	209.5	3 920.7	143.1	283.8	2 054.9	8 318.6	6 094.6	14 415.9	691.3	2 615.3	
369	Miscellaneous electrical equipment and supplies.....	149.3	3 044.6	101.8	195.0	1 701.1	7 912.5	6 063.1	13 946.4	477.9	2 428.1	
3691	Storage batteries.....	22.4	486.8	18.1	34.9	365.6	1 331.8	1 217.1	2 542.6	98.1	392.9	
3692	Primary batteries, dry and wet.....	11.4	194.2	8.7	16.5	133.8	585.1	620.8	1 206.9	23.9	150.8	
3693	X-ray, electromedical, and electrotherapeutic apparatus.....	45.7	1 076.7	22.2	43.6	366.4	2 887.2	1 704.2	4 565.4	205.4	1 092.7	
3694	Engine electrical equipment.....	46.6	939.8	36.4	68.8	640.8	2 364.3	1 873.7	4 212.4	112.7	558.7	
3699	Electrical equipment and supplies, n.e.c.....	23.3	347.1	16.4	31.0	194.6	744.2	647.2	1 419.1	37.8	232.9	
37	Transportation equipment.....	1 616.0	44 640.1	1 072.1	2 152.1	26 917.4	99 642.9	144 422.6	244 079.6	5 061.0	43 490.5	
371	Motor vehicles and equipment.....	658.6	18 273.8	529.6	1 086.5	14 069.4	46 969.4	101 134.7	147 285.8	2 265.2	10 055.9	
3711	Motor vehicles and car bodies.....	260.7	8 266.6	216.5	446.2	6 583.6	22 608.0	73 818.2	95 930.8	1 106.4	4 558.7	
3713	Truck and bus bodies.....	26.6	490.3	20.1	39.8	345.6	1 515.7	1 327.2	2 833.6	49.8	427.5	
3714	Motor vehicle parts and accessories.....	338.0	8 876.2	267.3	549.0	6 728.4	21 592.6	23 092.6	44 415.4	1 056.2	4 424.0	
3715	Truck trailers.....	21.6	394.0	16.4	32.3	272.0	670.9	1 508.3	2 171.6	38.8	454.6	
3716	Motor homes produced on purchased chassis.....	11.7	246.8	9.2	19.1	139.9	582.2	1 388.4	1 934.3	13.9	191.2	
372	Aircraft and parts.....	527.1	15 450.5	272.9	547.0	7 107.8	30 099.0	26 556.0	58 111.3	1 529.8	26 971.7	
3721	Aircraft.....	250.9	7 562.0	120.6	238.9	3 248.9	14 012.5	14 910.0	30 522.0	621.8	17 869.2	
3724	Aircraft engines and engine parts.....	122.0	3 546.4	69.5	142.1	1 816.9	7 720.2	6 204.5	14 112.0	440.2	4 414.1	
3726	Aircraft equipment, n.e.c.....	154.1	4 342.1	82.9	166.1	2 041.9	8 366.3	5 441.4	13 477.3	467.9	4 688.4	
373	Ship and boat building and repairing.....	179.9	3 928.9	139.0	268.7	2 770.6	6 824.3	5 370.4	12 177.2	344.9	1 360.7	
3731	Ship building and repairing.....	141.0	3 294.8	107.0	208.4	2 315.3	5 572.0	3 919.0	9 487.1	334.8	873.5	
3732	Boat building and repairing.....	38.9	634.1	32.0	60.4	455.2	1 252.3	1 451.5	2 690.1	40.1	487.2	
374	Railroad equipment.....	25.0	634.8	16.2	29.6	367.7	1 036.5	1 176.1	2 248.1	140.4	703.8	
3743	Railroad equipment.....	25.0	634.8	16.2	29.6	367.7	1 036.5	1 176.1	2 248.1	140.4	703.8	
375	Motorcycles, bicycles, and parts.....	12.2	238.9	9.9	20.3	178.0	545.7	874.6	1 436.1	26.5	282.3	
3751	Motorcycles, bicycles, and parts.....	12.2	238.9	9.9	20.3	178.0	545.7	874.6	1 436.1	26.5	282.3	
376	Guided missiles, space vehicles, parts.....	162.6	5 053.4	67.9	132.0	1 775.1	11 683.2	5 535.3	16 712.0	628.7	2 781.9	
3761	Guided missiles and space vehicles.....	110.7	3 469.3	42.7	80.5	1 116.0	8 260.8	4 068.5	11 870.6	437.6	2 306.6	
3764	Space propulsion units and parts.....	27.6	848.8	11.7	23.8	306.0	1 694.1	887.8	2 577.3	106.1	304.1	
3769	Space vehicle equipment, n.e.c.....	24.4	735.4	13.5	27.7	353.2	1 728.3	579.1	2 264.0	85.0	171.2	
379	Miscellaneous transportation equipment.....	50.7	1 059.8	36.6	68.0	648.8	2 484.9	3 775.5	6 109.2	125.5	1 334.2	
3792	Travel trailers and campers.....	15.6	274.8	12.7	24.2	185.8	649.6	996.6	1 617.7	20.7	169.1	
3795	Tanks and tank components.....	22.4	579.6	14.7	26.6	344.7	1 397.2	2 133.1	3 418.5	88.3	963.2	
3799	Transportation equipment, n.e.c.....	12.8	205.4	9.2	17.2	118.3	438.1	643.8	1 073.0	16.5	201.8	
38	Instruments and related products.....	608.1	13 473.0	348.3	670.9	6 100.1	35 258.1	18 471.8	53 599.5	1 804.2	11 192.5	
381	Engineering and scientific instruments.....	41.8	936.0	24.5	47.3	449.0	2 162.6	993.5	3 136.7	110.6	810.4	
3811	Engineering and scientific instruments.....	41.8	936.0	24.5	47.3	449.0	2 162.6	993.5	3 136.7	110.6	810.4	
382	Measuring and controlling devices.....	222.6	4 933.5	120.5	229.1	2 094.5	10 044.1	4 972.1	15 061.8	514.5	3 774.5	
3822	Environmental controls.....	27.9	539.5	20.4	38.1	332.1	1 130.5	616.6	1 745.2	67.7	363.6	
3823	Process control instruments.....	55.5	1 213.3	26.9	51.6	472.6	2 611.4	1 113.3	3 781.5	101.6	1 031.8	
3824	Fluid meters and counting devices.....	9.8	189.7	6.2	11.8	103.9	422.9	259.3	692.4	18.0	154.6	
3825	Instruments to measure electricity.....	89.7	2 052.3	49.5	94.1	860.4	4 413.3	2 129.0	6 484.4	272.6	1 586.5	
3829	Measuring and controlling devices, n.e.c.....	39.7	938.8	17.4	33.6	325.5	1 465.9	854.0	2 358.3	54.6	638.0	
383	Optical instruments and lenses.....	51.0	1 158.8	24.7	48.5	446.4	2 692.1	1 501.9	4 129.5	159.7	1 047.8	
3832	Optical instruments and lenses.....	51.0	1 158.8	24.7	48.5	446.4	2 692.1	1 501.9	4 129.5	159.7	1 047.8	
384	Medical instruments and supplies.....	143.8	2 703.4	94.8	182.1	1 371.5	7 341.3	4 146.6	11 504.4	387.5	2 260.6	
3841	Surgical and medical instruments.....	60.2	1 130.2	40.1	76.6	570.1	2 990.1	1 362.6	4 343.2	191.2	851.5	
3842	Surgical appliances and supplies.....	69.3	1 301.5	45.6	88.0	676.9	3 738.3	2 302.8	6 044.1	180.4	1 184.3	
3843	Dental equipment and supplies.....	14.4	271.7	9.0	17.5	124.5	612.9	481.2	1 117.2	15.9	224.8	
385	Ophthalmic goods.....	24.1	396.3	15.5	41.0	201.8	930.0	388.4	1 332.4	29.2	313.4	
3851	Ophthalmic goods.....	24.1	396.3	15.5	41.0	201.8	930.0	388.4	1 332.4	29.2	313.4	
386	Photographic equipment and supplies.....	110.2	3 117.6	57.6	112.7	1 398.8	11 654.7	5 887.0	17 366.3	587.3	2 752.3	
3861	Photographic equipment and supplies.....	110.2	3 117.6	57.6	112.7	1 398.8	11 654.7	5 887.0	17 366.3	587.3	2 752.3	
387	Watches, clocks, and watchcases.....	14.6	227.3	10.7	20.1	138.1	433.4	582.2	1 068.2	15.4	233.7	
3873	Watches, clocks, and watchcases.....	14.6	227.3	10.7	20.1	138.1	433.4	582.2	1 068.2	15.4	233.7	
39	Miscellaneous manufacturing industries.....	374.9	5 674.4	280.0	518.4	3 415.8	13 702.4	12 696.2	26 425.7	542.7	5 191.7	
391	Jewelry, silverware, and plated ware.....	48.6	788.7	34.6	63.3	445.8	1 743.8	2 615.7	4 328.4	36.9	1 210.9	
3911	Jewelry, precious metal.....	33.9	534.2	23.8	42.7	297.9	1 227.8	1 867.9	3 075.0	22.2	809.2	
3914	Silverware and plated ware.....	8.4	137.4	5.9	11.1	87.7	290.7	232.0	510.8	9.6	208.4	
3915	Jewelers' materials and lapidary work.....	6.4	97.1	4.9	9.5	60.2	225.3	515.7	742.5	5.2	193.3	
393	Musical instruments.....	16.6	261.3	13.1	24.7	175.6	489.4	441.4	945.6	15.5	271.6	
3931	Musical instruments.....	16.6	261.3	13.1	24.7	175.6	489.4	441.4	945.6	15.5	271.6	
394	Toys and sporting goods.....	96.4	1 331.8	73.6	134.5	804.2	4 075.0	3 377.0	7 481.9	181.7	1 385.6	
3942	Dolls.....	7.7	103.1	5.5	10.1	47.9	335.7	256.9	595.1	(D)	78.0	
3944	Games, toys, and children's vehicles.....	43.9	585.6	34.4	61.3	345.2	1 980.0	1 547.8	3 552.8	99.8	545.9	
3949	Sporting and athletic goods, n.e.c.....	44.8	663.1	33.7	63.1	411.0	1 759.3	1 572.4	3 333.9	(D)	761.7	
395	Pens, pencils, and office and art supplies.....	30.0	478.6	22.2	42.3	294.3	1 289.8	1 168.9	2 450.5	54.8	460.7	
3951	Pens and mechanical pencils.....	9.4	158.2	7.1	13.7	94.7	448.6	311.1	785.7	22.0	135.9	
3952	Lead pencils and art goods.....	6.2	91.3	4.5	8.5	53.2	270.1	221.5	487.7	13.6	112.1	
3953	Marking devices.....	7.3	101.3	5.2	9.4	63.0	209.3	119.8	327.4	6.0	48.6	
3955	Carbon paper and inked ribbons.....	7.1	127.9	5.4	10.7	83.4	361.9	516.5	849.7	13.1	164.2	

See footnotes at end of table.

1982													SIC code
All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)	Standard error of estimate (percent) for column 1--			
Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						A	F	I	
K	L	M	N	O	P	Q	R	S	T	A	F	I	
515.8	9 770.1	324.8	626.3	4 644.5	21 214.2	13 584.4	34 516.8	3 012.7	6 436.0	1	1	2	36
35.5	773.0	24.7	47.5	476.5	1 306.8	979.5	2 302.3	89.0	378.9	1	1	2	367
166.5	3 785.0	81.3	154.4	1 313.3	8 356.6	4 196.0	12 429.9	1 723.8	2 260.7	1	1	2	3674
28.9	387.9	21.6	40.7	243.6	728.4	472.3	1 188.9	66.9	289.2	2	1	4	3675
18.3	258.4	12.4	23.8	139.1	524.0	238.4	785.8	28.9	164.8	10	6	4	3676
23.7	293.4	18.7	35.2	183.5	537.6	327.6	863.3	35.5	127.5	2	3	10	3677
39.7	687.5	28.0	54.2	418.4	1 633.5	974.9	2 565.0	168.7	603.8	2	2	4	3678
203.2	3 584.9	138.2	270.5	1 870.2	8 127.2	6 401.1	14 401.6	893.5	2 611.2	2	1	5	3679
147.1	2 868.7	98.5	187.4	1 568.7	6 994.3	5 574.0	12 543.5	510.4	2 343.0	2	1	3	369
22.9	473.6	18.0	34.4	347.3	1 203.0	1 962.2	2 431.3	109.7	376.9	1	1	1	3691
11.7	192.3	9.1	17.6	137.0	559.2	531.7	1 101.8	42.9	148.5	1	3	2	3692
47.9	1 066.6	23.1	45.6	364.5	2 733.8	1 645.2	4 270.0	236.3	1 091.1	2	2	5	3693
42.9	620.5	32.3	60.5	534.7	1 851.5	1 582.1	3 464.3	78.4	501.4	4	2	6	3694
21.6	315.7	16.0	29.3	185.2	646.8	618.9	1 276.2	43.1	224.9	4	2	8	3699
1 595.9	40 811.9	1 058.8	2 051.4	24 378.8	84 932.3	120 010.5	201 346.1	7 214.4	42 282.5	1	1	1	37
615.6	15 393.4	485.3	923.2	11 522.4	34 293.5	77 677.9	112 269.6	4 264.4	8 453.3	1	1	1	371
240.1	6 821.9	193.5	364.2	5 261.5	15 455.8	55 520.0	70 739.7	2 368.3	3 621.2	1	1	1	3711
28.1	497.2	21.1	40.0	344.2	1 176.9	1 304.3	2 463.6	49.2	412.1	3	3	9	3713
321.4	7 614.0	251.1	481.8	5 614.2	16 764.6	19 007.0	36 293.1	1 791.7	3 945.2	1	1	2	3714
18.8	339.6	14.0	27.1	223.2	592.2	1 193.6	1 820.6	39.7	342.8	4	5	8	3725
7.2	120.6	5.7	10.2	79.3	304.0	653.1	952.7	15.5	131.9	2	11	2	3716
538.6	14 717.5	288.5	572.8	6 987.1	29 402.2	25 956.6	52 026.7	1 680.4	27 641.2	1	1	1	372
275.1	7 743.7	138.6	272.2	3 517.9	15 641.9	15 705.4	28 024.3	836.4	19 143.9	1	1	1	3721
130.7	3 544.4	76.5	154.0	1 819.3	7 572.2	6 262.1	13 809.3	441.1	4 691.6	1	1	3	3724
132.8	3 429.4	73.5	146.6	1 650.0	6 188.1	3 989.0	10 193.1	402.9	3 805.7	1	1	2	3728
205.0	4 325.8	161.5	319.3	3 194.0	7 508.6	5 822.7	13 326.4	496.0	1 817.2	1	2	2	373
166.7	3 737.7	130.7	259.4	2 771.2	6 379.4	4 587.8	10 967.2	438.4	1 353.6	1	2	2	3731
38.3	588.1	30.8	59.9	422.8	1 129.2	1 234.9	2 359.2	57.6	463.5	2	2	7	3732
94.5	790.4	22.8	38.9	478.7	1 491.8	1 770.5	3 456.6	142.3	775.7	3	5	3	374
34.5	790.4	22.8	38.9	478.7	1 491.8	1 770.5	3 456.6	142.3	775.7	3	5	3	3743
13.0	224.9	10.4	19.0	168.8	402.5	888.9	1 341.1	23.1	285.5	5	3	3	375
13.0	224.9	10.4	19.0	168.8	402.5	888.9	1 341.1	23.1	285.5	5	3	3	3751
146.3	4 481.1	59.7	120.1	1 483.3	9 856.6	5 034.4	14 398.0	461.5	2 081.7	1	1	1	376
99.6	3 159.4	35.9	70.5	915.7	7 025.5	3 652.1	10 218.6	293.3	1 685.3	1	1	1	3761
25.3	737.1	10.8	23.4	283.1	1 534.0	737.2	2 221.2	95.8	276.0	1	1	1	3764
21.4	584.6	13.0	26.2	304.5	1 297.1	645.1	1 958.3	72.4	120.4	1	1	2	3769
42.9	878.8	31.3	58.0	544.5	1 977.0	2 859.6	4 527.7	146.7	1 228.0	1	1	3	379
13.8	221.6	11.2	20.4	149.8	442.4	837.7	1 281.6	17.0	136.5	2	2	12	3792
18.2	475.9	12.6	23.3	291.1	1 157.7	1 506.2	2 351.0	114.7	919.6	1	1	1	3795
10.9	181.2	7.5	14.4	103.7	377.0	515.6	895.2	15.0	171.9	4	4	14	3799
623.6	12 882.9	363.3	696.8	5 917.1	33 672.2	17 875.2	51 797.8	2 103.0	10 925.1	1	1	3	38
42.8	869.1	25.9	49.8	439.9	2 101.1	974.2	3 046.2	102.8	821.9	2	2	14	381
42.8	869.1	25.9	49.8	439.9	2 101.1	974.2	3 046.2	100.0	821.9	2	2	14	3811
227.7	4 646.4	124.1	234.5	1 946.7	10 007.3	4 587.8	14 632.8	601.6	3 686.3	1	1	3	382
28.8	487.5	20.6	36.2	301.9	1 025.7	514.3	1 549.1	66.8	361.7	1	1	3	3822
60.3	1 256.1	30.0	57.7	482.0	2 826.9	1 175.5	4 037.8	127.4	1 074.4	1	1	6	3823
11.1	199.0	6.9	13.1	109.4	460.2	266.7	728.3	27.6	172.0	1	1	4	3824
89.7	1 888.2	48.9	92.5	757.1	4 290.1	1 840.7	6 094.4	308.3	1 469.1	2	2	5	3825
37.8	806.7	17.7	35.0	296.3	1 404.5	790.6	2 223.1	71.5	609.1	1	2	10	3829
50.0	1 025.5	25.5	50.3	427.9	2 368.2	1 420.0	3 757.3	150.8	987.3	3	3	11	383
50.0	1 025.5	25.5	50.3	427.9	2 368.2	1 420.0	3 757.3	150.8	987.3	3	3	11	3832
141.3	2 491.9	94.4	180.9	1 282.6	6 978.4	3 958.9	10 863.3	439.6	2 225.6	2	1	6	384
56.9	999.5	38.5	74.3	517.5	2 884.8	1 252.5	4 847.7	230.2	847.7	3	2	10	3841
68.8	1 211.1	46.1	87.8	633.1	3 450.8	2 233.1	5 667.1	187.7	1 106.7	1	2	6	3842
15.5	281.3	9.8	18.8	132.0	642.8	473.3	1 111.7	21.6	271.2	4	4	13	3843
25.8	408.7	17.1	34.5	212.6	874.2	386.4	1 273.0	31.1	321.7	1	1	2	385
25.8	408.7	17.1	34.5	212.6	874.2	386.4	1 273.0	31.1	321.7	1	1	2	3851
119.3	3 193.1	64.1	123.7	1 457.2	10 859.5	5 859.7	17 037.5	752.6	2 601.4	1	1	3	386
119.3	3 193.1	64.1	123.7	1 457.2	10 859.5	5 859.7	17 037.5	752.6	2 601.4	1	1	3	3861
16.8	248.1	12.3	22.4	150.2	483.5	688.2	1 187.6	14.6	261.0	1	2	6	387
16.8	248.1	12.3	22.4	150.2	483.5	688.2	1 187.6	14.6	261.0	1	2	6	3873
382.6	5 646.9	280.8	522.8	3 413.6	14 058.1	12 791.2	26 891.4	629.2	5 220.4	1	1	5	39
50.2	770.1	34.7	64.8	447.8	1 784.4	2 578.7	4 378.5	52.3	1 206.5	1	2	6	391
35.3	535.8	23.7	43.6	302.6	1 278.8	1 779.3	3 039.1	33.4	824.2	2	2	8	3911
9.1	148.3	6.5	12.4	91.6	311.9	262.5	583.9	11.8	194.0	3	2	5	3914
5.8	86.1	4.5	8.8	53.6	193.7	536.8	755.5	6.1	188.4	2	4	17	3915
17.8	257.8	14.0	25.7	176.6	494.8	415.5	915.9	20.1	270.7	3	3	11	393
17.8	257.8	14.0	25.7	176.6	494.8	415.5	915.9	20.1	270.7	3	3	11	3931
98.9	1 389.3	74.0	137.8	837.8	4 610.1	3 639.9	8 255.6	195.3	1 519.9	2	2	7	394
7.3	86.6	5.9	10.6	48.1	209.5	194.2	402.7	7.3	71.2	2	1	4	3942
43.8	625.0	32.2	59.4	383.6	2 622.6	1 854.5	4 476.0	111.5	652.5	1	2	10	3944
47.8	677.7	36.0	67.7	426.1	1 778.0	1 591.2	3 376.8	76.5	796.2	4	3	12	3949
32.2	484.8	23.7	45.3	304.2	1 262.8	1 128.4	2 371.7	74.7	454.4	3	3	8	395
11.6	174.8	8.8	16.8	112.3	472.6	346.6	809.4	27.8	172.0	8	4	11	3951
6.0	87.5	4.3	8.0	48.6	244.8	199.4	445.9	16.2	106.3	1	4	4	3952
7.6	107.1	5.5	10.2	65.7	221.4	119.0	337.6	7.6	50.7	3	5	54	3953
6.9	115.4	5.2	10.3	77.6	324.1	463.5	778.8	15.4	125.5	2	5	9	3955

Table 2. Statistics for Industry Groups and Industries: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983									
		All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expendi- tures (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
		A	B	C	D	E	F	G	H	I	J
38	Miscellaneous manufacturing industries—Con.										
398	Costume jewelry and notions.....	42.7	564.3	32.4	60.8	347.5	1 308.9	1 039.8	2 345.5	72.9	413.7
3981	Costume jewelry.....	23.3	290.0	17.3	31.6	167.5	674.4	536.2	1 216.1	26.2	188.8
3982	Artificial flowers.....	4.5	57.9	3.6	6.5	35.3	137.4	143.3	286.6	3.8	59.5
3983	Buttons.....	2.7	33.2	2.1	4.2	25.7	86.4	62.3	141.9	2.6	21.1
3984	Needles, pins, and fasteners.....	12.1	183.3	9.4	18.5	119.0	410.7	298.0	700.9	40.2	139.7
399	Miscellaneous manufactures.....	140.7	2 269.6	104.1	192.8	1 348.5	4 795.6	4 053.3	8 873.9	180.9	1 449.1
3991	Brooms and brushes.....	13.4	205.1	9.9	17.6	124.1	470.9	421.1	894.0	18.7	159.2
3993	Signs and advertising displays.....	52.7	881.7	38.4	69.4	503.2	1 610.1	1 171.6	2 759.3	54.7	341.6
3995	Burial caskets.....	10.3	151.2	8.3	17.0	106.0	408.3	275.1	689.7	14.3	95.4
3996	Hard surface floor coverings.....	6.2	145.7	4.8	9.3	104.3	475.0	403.3	864.7	26.6	164.6
3999	Manufacturing industries, n.e.c.....	58.1	885.9	42.7	79.5	510.9	1 831.3	1 782.2	3 666.2	66.6	688.3
—	Auxiliaries.....	1 256.1	40 488.7	—	—	—	—	—	—	—	—

¹Description of standard error of estimate is given in introduction under Qualifications of the Data. Percentage standard errors shown are approximate relative standard errors of estimates of level for 1983.

²Only includes data for privately owned and/or operating manufacturing establishments, manufacturing concerns reported separately for auxiliary units which serve the manufacturing establishments of a company (e.g., storage warehouses, power plants, research laboratories, garages, repair shops, etc.), rather than the general public. Separate reports were obtained if these units were at different geographic locations from establishments served or if they serviced more than one manufacturing establishment. Employment and payroll data shown represent total for all such units which primarily serve manufacturing plants.

1982										Standard error of estimate (percent) for column ¹ —			SIC code
All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expendi- tures (million dollars)	End-of-year inventories (million dollars)				
Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						A	F	I	
K	L	M	N	O	P	Q	R	S	T				39
41.9	527.8	32.2	61.9	336.0	1 156.4	921.5	2 110.2	63.7	394.7	4	4	17	396
21.1	263.3	15.7	29.4	158.0	588.9	414.5	1 027.1	16.6	175.1	5	4	43	3961
4.7	52.0	3.7	6.8	34.1	120.8	136.5	260.1	5.5	59.9	11	8	36	3962
2.7	35.4	2.1	3.9	23.1	67.0	56.4	124.2	1.9	17.3	3	13	75	3963
13.4	177.1	10.6	21.8	120.8	379.6	314.1	698.8	44.3	142.4	9	8	10	3964
141.7	2 217.1	102.1	187.3	1 311.2	4 750.6	4 107.2	8 859.5	204.7	1 374.1	2	2	8	399
14.1	197.1	10.5	19.4	123.0	432.5	376.9	818.1	17.2	155.1	5	7	29	3991
52.8	870.7	36.4	66.4	497.3	1 583.9	1 113.1	2 692.4	63.1	310.0	3	4	22	3993
10.3	145.1	8.1	15.3	98.0	374.6	309.7	682.1	36.7	103.4	4	10	6	3995
5.3	112.1	3.9	7.3	78.3	323.4	270.3	604.1	18.2	118.1	(NA)	(NA)	(NA)	3996
59.3	892.0	43.1	79.0	514.6	2 036.2	2 037.3	4 062.8	87.7	687.4	2	3	8	3999
1 276.0	38 220.3	-	-	-	-	-	-	-	-	1	1	1	-

Table 3. Employment and Labor Cost for Operating Manufacturing Establishments by Industry Group and Industry: 1983 and 1982

(For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for column ¹ —		
		Employees (1,000)	Compensation (million dollars)				Employees (1,000)	Compensation (million dollars)						
			Total	Payroll	Social security and other legally required payments	Employer payments and other programs		Total	Payroll	Social security and other legally required payments	Employer payments and other programs			
A	B	C	D	E	F	G	H	I	J	D	E			
	All industries.....	17 463.5	438 544.5	354 247.3	32 314.2	51 983.2	17 818.1	422 402.1	341 406.2	30 377.4	50 616.0	1	1	
20	Food and kindred products.....	1 445.6	32 775.1	26 602.5	2 642.9	3 529.7	1 487.7	32 038.8	26 087.5	2 535.0	3 416.8	1	1	
21	Tobacco products.....	54.8	1 807.1	1 354.9	111.8	340.4	57.9	1 748.6	1 323.5	106.6	318.1	1	1	
22	Textile mill products.....	723.3	11 870.3	10 060.5	906.6	903.2	717.4	10 678.1	9 046.1	804.7	826.1	1	1	
23	Apparel and other textile products.....	1 190.5	14 954.8	12 789.4	1 169.7	995.7	1 189.0	14 116.1	12 126.8	1 079.4	907.8	2	2	
24	Lumber and wood products.....	628.9	11 890.8	9 715.2	1 004.8	970.8	576.4	10 176.1	8 444.5	876.2	855.3	2	1	
25	Furniture and fixtures.....	443.6	7 911.3	6 615.2	624.5	671.6	436.0	7 233.8	6 083.7	561.3	588.7	1	2	
26	Paper and allied products.....	606.7	17 013.4	13 842.8	1 227.9	1 942.5	605.6	15 827.1	12 947.5	1 112.8	1 766.6	1	1	
27	Printing and publishing.....	1 300.7	28 526.8	24 211.7	1 920.0	2 395.1	1 291.8	26 684.9	22 706.9	1 771.1	2 206.9	1	1	
28	Chemicals and allied products.....	850.7	26 666.0	21 411.2	1 744.1	3 510.7	872.6	25 855.0	20 835.7	1 686.4	3 333.0	1	1	
29	Petroleum and coal products.....	146.3	5 550.0	4 409.1	345.6	795.3	151.6	5 455.0	4 338.7	338.7	777.6	1	1	
30	Rubber and miscellaneous plastics products.....	684.4	15 268.6	12 305.4	1 222.7	1 740.4	681.7	14 345.9	11 596.8	1 143.4	1 605.7	1	1	
31	Leather and leather products.....	188.8	2 640.9	2 225.1	219.2	196.6	199.8	2 622.2	2 218.5	209.6	194.0	2	2	
32	Stone, clay, and glass products.....	525.8	13 067.2	10 517.8	1 073.3	1 476.0	531.5	12 534.0	10 096.7	998.4	1 438.7	1	1	
33	Primary metal industries.....	771.2	25 987.0	19 259.6	2 057.4	4 670.0	854.1	27 550.4	20 602.7	2 001.7	4 945.9	1	1	
34	Fabricated metal products.....	1 418.0	35 826.5	28 823.7	2 821.0	4 181.7	1 459.7	35 115.7	28 282.6	2 707.0	4 126.2	1	1	
35	Machinery, except electrical.....	1 989.5	55 507.1	45 106.7	3 920.6	6 479.8	2 188.7	57 761.5	46 910.7	4 017.4	6 833.1	1	1	
36	Electric and electronic equipment.....	1 895.7	50 763.0	41 209.1	3 479.8	6 074.3	1 914.5	47 254.9	38 413.6	3 163.3	5 678.0	1	1	
37	Transportation equipment.....	1 616.0	57 638.3	44 640.1	4 210.5	8 787.7	1 595.9	53 130.5	40 811.9	3 696.8	8 620.7	1	1	
38	Instruments and related products.....	608.1	16 295.5	13 473.0	1 075.3	1 747.1	623.6	15 537.4	12 882.9	1 041.4	1 613.3	1	1	
39	Miscellaneous manufacturing industries.....	374.9	6 785.2	5 674.4	536.5	574.4	382.6	6 736.5	5 646.9	526.3	563.3	1	2	
20	Food and kindred products.....	1 445.6	32 775.1	26 602.5	2 642.9	3 529.7	1 487.7	32 038.8	26 087.5	2 535.0	3 416.8	1	1	
201	Meat products.....	308.2	5 988.7	4 907.5	512.9	588.2	317.7	6 061.1	4 992.7	490.8	577.6	1	2	
2011	Meat packing plants.....	126.4	2 966.1	2 401.2	258.5	306.3	134.4	3 136.0	2 549.3	251.0	335.7	1	2	
2013	Sausages and other prepared meats.....	65.7	1 510.8	1 231.9	122.2	156.7	65.5	1 472.9	1 206.2	117.0	149.7	2	3	
2016	Poultry dressing plants.....	101.7	1 289.7	1 087.8	112.0	90.0	104.4	1 266.3	1 079.6	106.6	80.1	1	1	
2017	Poultry and egg processing.....	14.5	222.1	186.6	20.3	15.2	13.3	185.8	157.5	16.2	12.1	3	2	
202	Dairy products.....	139.1	3 262.9	2 657.4	253.6	351.9	139.9	3 133.7	2 553.1	245.8	334.8	2	2	
2021	Creamery butter.....	2.2	54.4	43.2	4.0	7.1	2.2	50.7	40.2	4.0	6.5	3	4	
2022	Cheese, natural and processed.....	29.8	603.8	491.1	47.4	65.3	29.6	576.7	472.1	43.5	61.1	2	4	
2023	Condensed and evaporated milk.....	13.1	383.0	304.5	27.9	50.6	12.2	322.3	258.7	23.5	40.1	2	3	
2024	Ice cream and frozen desserts.....	17.7	416.4	349.7	32.7	34.0	17.8	380.8	313.5	32.5	34.8	5	7	
2026	Fluid milk.....	76.3	1 805.3	1 468.9	141.5	194.9	78.2	1 803.3	1 468.7	142.3	192.3	3	3	
203	Preserved fruits and vegetables.....	214.3	4 279.4	3 437.2	392.6	449.7	219.6	4 116.1	3 315.1	375.6	425.4	2	2	
2032	Canned specialties.....	24.8	555.3	443.8	47.6	63.8	23.4	488.3	392.4	40.2	55.7	2	3	
2033	Canned fruits and vegetables.....	65.2	1 255.5	1 007.9	120.0	127.7	70.5	1 293.9	1 040.1	125.1	128.7	3	4	
2034	Dehydrated fruits, vegetables, and soups.....	11.0	266.3	210.0	23.3	33.1	13.6	277.5	216.9	26.3	34.3	4	5	
2035	Pickles, sauces, and salad dressings.....	22.2	471.8	383.6	38.2	50.0	22.0	455.5	371.5	36.7	47.3	3	3	
2037	Frozen fruits and vegetables.....	47.3	860.5	681.2	86.6	92.8	47.7	813.1	643.5	84.2	85.4	2	2	
2038	Frozen specialties.....	43.9	870.0	710.8	76.9	82.3	42.4	787.8	650.7	63.1	74.0	2	3	
204	Grain mill products.....	105.7	2 835.6	2 286.5	217.9	331.2	107.5	2 699.1	2 197.0	198.0	304.1	1	2	
2041	Flour and other grain mill products.....	14.7	418.7	335.4	34.7	43.6	15.1	397.0	323.0	29.7	44.3	3	2	
2043	Cereal breakfast foods.....	16.3	615.6	483.0	44.5	88.1	15.6	551.8	435.0	38.4	78.4	1	1	
2044	Rice milling.....	5.4	115.3	94.3	10.4	10.6	5.6	116.0	95.5	10.4	10.1	3	4	
2045	Blended and prepared flour.....	7.1	184.1	150.4	12.6	21.2	6.8	158.9	131.2	10.7	17.0	6	5	
2046	Wet corn milling.....	8.9	324.6	254.0	23.4	47.2	9.5	324.9	254.7	24.7	45.5	2	1	
2047	Dog, cat, and other pet food.....	17.1	422.2	342.5	32.7	47.0	17.4	416.4	340.2	28.4	47.8	4	5	
2048	Prepared feeds, n.e.c.....	36.3	755.2	627.1	59.6	68.5	37.5	734.1	617.4	55.7	61.0	2	5	
205	Bakery products.....	207.7	5 129.6	4 110.5	391.9	627.2	216.5	5 053.7	4 050.7	375.8	627.2	2	2	
2051	Bread, cake, and related products.....	162.0	4 032.5	3 251.8	311.4	469.3	170.9	4 050.3	3 254.3	301.6	494.4	3	2	
2052	Cookies and crackers.....	45.7	1 097.1	858.8	80.4	157.9	45.6	1 003.5	796.5	74.2	132.8	3	3	
206	Sugar and confectionery products.....	94.6	2 140.4	1 723.5	178.4	238.5	85.7	2 056.6	1 660.6	163.4	232.6	2	2	
2061	Raw cane sugar.....	7.6	174.0	141.1	15.8	17.0	7.5	163.1	133.8	13.3	16.0	2	3	
2062	Cane sugar refining.....	7.6	245.2	195.1	18.5	31.6	8.3	247.9	197.2	18.0	32.7	2	1	
2063	Beet sugar.....	7.8	188.0	155.0	16.9	16.0	10.3	204.4	169.4	17.4	17.6	1	1	
2065	Confectionery products.....	56.0	1 128.2	910.0	96.6	121.5	54.2	1 065.8	857.6	86.7	121.5	3	3	
2066	Chocolate and cocoa products.....	10.1	275.9	221.2	20.3	34.4	10.1	252.4	205.7	18.9	27.8	1	1	
2067	Chewing gum.....	5.4	129.0	101.0	10.2	17.9	5.4	123.0	96.9	9.1	17.0	4	3	
207	Fats and oils.....	35.8	928.5	756.5	77.1	94.9	38.7	946.5	774.3	79.0	93.2	2	2	
2074	Cottonseed oil mills.....	4.1	81.0	65.2	8.4	7.4	5.2	93.6	76.2	9.9	7.5	2	4	
2075	Soybean oil mills.....	8.1	219.9	180.6	18.1	21.2	8.9	229.0	188.7	18.8	21.5	2	1	
2076	Vegetable oil mills, n.e.c.....	1.3	29.1	24.2	2.5	2.4	1.3	26.7	22.3	2.2	2.2	2	8	
2077	Animal and marine fats and oils.....	10.7	263.0	215.6	24.3	23.1	10.8	260.3	215.1	23.3	21.9	5	6	
2079	Shortening and cooking oils.....	11.6	335.6	270.9	23.8	40.9	12.5	336.9	272.0	24.8	40.1	1	1	
208	Beverages.....	189.3	5 313.1	4 352.9	391.6	568.7	194.1	5 180.9	4 244.1	388.0	548.8	1	1	
2082	Malt beverages.....	40.7	1 604.3	1 302.6	103.9	197.7	43.0	1 624.2	1 307.9	110.9	205.4	1	2	
2083	Malt.....	1.6	55.1	42.9	4.4	7.9	1.7	55.2	42.9	4.8	7.5	8	8	
2084	Wines, brandy, and brandy spirits.....	11.8	323.2	257.3	27.3	38.6	11.8	308.2	245.8	26.0	36.4	2	2	
2085	Distilled liquor, except brandy.....	11.3	329.9	261.1	24.5	44.3	12.2	331.4	263.8	23.9	43.7	3	4	
2086	Bottled and canned soft drinks.....	112.3	2 705.2	2 244.8	211.1	249.3	113.8	2 574.0	2 146.4	203.0	224.6	2	2	
2087	Flavoring extracts and syrups, n.e.c.....	11.7	295.6	244.2	20.4	31.0	11.6	287.9	237.3	19.4	31.2	7	8	
209	Miscellaneous foods and kindred products.....	151.0	2 896.8	2 370.4	227.0	299.4	158.0	2 791.1	2 299.8	218.4	272.9	2	2	
2091	Canned and cured seafoods.....	12.6	237.7	199.2	20.1	18.4	13.9	230.9	194.9	19.8	16.2	4	4	
2092	Fresh or frozen packaged fish.....	34.3	470.6	398.4	43.1	29.1	37.5	478.3	408.6	41.1	28.6	2	6	
2095	Roasted coffee.....	11.1	329.6	265.1	23.7	40.9	11.8	325.7	265.7	22.7	37.3	2	2	
2097	Manufactured ice.....	5.1	71.1	66.7	2.7	1.7	5.0	73.9	65.1	5.6	3.2	19	19	
2098	Macaroni and spaghetti.....	8.4	178.6	149.1	15.5	14.1	8.4	173.2	145.0	14.4	13.8	5	17	
2099	Food preparations, n.e.c.....	79.6	1 609.1	1 292.0	121.9	195.3	81.4	1 509.2	1 220.6	114.8	173.8	2	3	

See footnotes at end of table.

Table 3. Employment and Labor Cost for Operating Manufacturing Establishments by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for column ¹ —		
		Employees (1,000)	Compensation (million dollars)				Employees (1,000)	Compensation (million dollars)						
			Total	Payroll	Social security and other legally required payments	Employer payments and other programs		Total	Payroll	Social security and other legally required payments	Employer payments and other programs			
A	B	C	D	E	F	G	H	I	J	D	E			
21	Tobacco products	54.8	1 807.1	1 354.9	111.8	340.4	57.9	1 748.6	1 323.5	106.6	318.3	1	1	
211	Cigarettes	38.6	1 496.9	1 112.1	84.3	300.5	41.5	1 457.9	1 093.7	83.4	280.8	1	1	
2111	Cigarettes	38.6	1 496.9	1 112.1	84.3	300.5	41.5	1 457.9	1 093.7	83.4	280.8	1	1	
212	Cigars	5.0	72.6	58.4	5.6	8.6	5.1	71.9	58.5	5.6	7.8	1	1	
2121	Cigars	5.0	72.6	58.4	5.6	8.6	5.1	71.9	58.5	5.6	7.8	1	1	
213	Chewing and smoking tobacco	3.0	70.0	53.9	5.6	10.6	3.1	66.4	51.6	5.0	9.8	7	10	
2131	Chewing and smoking tobacco	3.0	70.0	53.9	5.6	10.6	3.1	66.4	51.6	5.0	9.8	7	10	
214	Tobacco stemming and redrying	8.2	167.6	130.6	16.3	20.8	8.3	152.4	119.8	12.6	20.0	6	2	
2141	Tobacco stemming and redrying	8.2	167.6	130.6	16.3	20.8	8.3	152.4	119.8	12.6	20.0	6	2	
22	Textile mill products	723.3	11 870.3	10 060.5	906.6	903.2	717.4	10 678.1	9 046.1	804.7	826.1	1	1	
221	Weaving mills, cotton	71.6	1 197.0	1 020.9	89.0	87.1	76.9	1 129.2	964.6	82.2	82.4	1	1	
2211	Weaving mills, cotton	71.6	1 197.0	1 020.9	89.0	87.1	76.9	1 129.2	964.6	82.2	82.4	1	1	
222	Weaving mills, synthetics	137.2	2 373.2	2 023.6	182.8	166.9	140.8	2 141.4	1 815.2	163.1	163.1	1	1	
2221	Weaving mills, manmade fiber and silk	137.2	2 373.2	2 023.6	182.8	166.9	140.8	2 141.4	1 815.2	163.1	163.1	1	1	
223	Weaving and finishing mills, wool	13.6	242.2	197.8	20.8	23.7	13.1	212.6	175.8	18.2	18.6	1	1	
2231	Weaving and finishing mills, wool	13.6	242.2	197.8	20.8	23.7	13.1	212.6	175.8	18.2	18.6	1	1	
224	Narrow fabric mills	16.9	267.0	227.3	21.5	18.2	17.5	247.9	215.5	18.2	14.2	5	6	
2241	Narrow fabric mills	16.9	267.0	227.3	21.5	18.2	17.5	247.9	215.5	18.2	14.2	5	6	
225	Knitting mills	214.5	3 043.1	2 610.9	225.0	207.2	204.8	2 714.3	2 327.2	198.9	188.2	2	2	
2251	Women's hosiery, except socks	30.8	418.9	354.5	31.0	33.3	30.2	366.5	311.1	27.5	27.9	1	2	
2252	Hosiery, n.e.c.	33.6	426.9	374.5	30.9	21.5	32.6	371.6	326.5	26.5	18.6	7	5	
2253	Knit outerwear mills	74.5	1 003.6	862.3	77.1	64.1	66.8	863.0	741.4	64.5	57.1	2	2	
2254	Knit underwear mills	20.6	268.4	226.4	20.5	21.6	22.3	274.3	232.3	19.8	22.2	3	5	
2257	Circular knit fabric mills	31.2	512.8	432.1	37.7	43.0	31.1	495.7	420.9	35.3	39.5	1	3	
2258	Warp knit fabric mills	20.8	373.7	322.9	27.2	23.5	19.0	304.7	261.1	22.5	21.1	6	3	
2259	Knitting mills, n.e.c.	3.0	43.5	38.1	3.4	1.9	2.9	38.4	33.8	2.8	1.8	4	4	
226	Textile finishing, except wool	58.6	1 108.2	928.6	87.5	92.0	58.1	997.2	834.0	80.4	82.8	3	4	
2261	Finishing plants, cotton	11.6	205.7	171.8	16.3	17.6	11.6	195.6	161.8	16.7	17.1	4	3	
2262	Finishing plants, manmade	34.5	694.1	575.1	56.5	59.5	34.4	617.0	514.8	50.5	51.7	3	4	
2269	Finishing plants, n.e.c.	12.6	208.4	178.7	14.8	14.9	12.0	184.5	157.3	13.2	14.0	10	13	
227	Floor covering mills	44.3	809.0	691.2	62.6	55.2	41.9	705.5	603.1	52.6	49.8	1	2	
2271	Woven carpets and rugs	2.9	45.0	38.1	3.6	3.3	3.1	45.0	38.4	3.6	3.0	5	1	
2272	Tufted carpets and rugs	39.8	741.7	634.0	57.2	50.4	36.1	614.7	525.2	45.8	43.7	1	3	
2279	Carpets and rugs, n.e.c.	1.6	22.4	19.1	1.8	1.5	2.6	46.9	39.5	3.8	3.6	8	8	
228	Yarn and thread mills	111.4	1 739.5	1 472.7	133.6	133.3	108.6	1 510.8	1 277.8	113.0	120.0	2	3	
2281	Yarn mills, except wool	72.9	1 151.7	981.3	88.8	81.6	72.6	1 000.8	850.8	74.3	75.7	2	4	
2282	Throwing and winding mills	25.5	391.9	326.3	30.5	35.2	22.8	327.0	273.0	24.9	29.1	2	2	
2283	Wool yarn mills	3.6	52.8	46.4	3.3	3.0	3.4	46.9	40.7	3.2	3.0	12	13	
2284	Thread mills	9.5	143.2	118.7	11.0	13.5	9.8	136.0	113.2	10.6	12.2	3	3	
229	Miscellaneous textile goods	55.2	1 091.1	887.6	83.8	119.8	55.8	1 018.1	832.9	78.2	107.0	1	2	
2291	Felt goods, except woven felts and hats	3.2	78.2	64.5	5.5	8.3	3.6	79.2	66.3	5.3	7.6	3	6	
2292	Lace goods	2.2	32.7	27.8	3.0	2.0	2.1	29.5	25.3	2.5	1.7	1	2	
2293	Paddings and upholstery filling	4.0	77.3	63.8	6.3	7.3	4.4	71.4	59.9	5.5	6.0	6	12	
2294	Processed textile waste	3.1	47.4	40.4	3.9	3.1	3.2	47.5	40.4	4.0	3.1	2	3	
2295	Coated fabrics, not rubberized	10.7	261.8	205.8	20.7	35.3	11.0	250.6	198.5	19.9	32.2	3	4	
2296	Tire cord and fabric	6.4	129.1	100.5	10.1	18.5	6.5	116.1	90.5	8.8	16.8	1	1	
2297	Nonwoven fabrics	12.3	260.1	211.1	17.9	31.1	12.3	243.5	198.8	17.4	27.3	2	3	
2298	Cordage and twine	7.2	111.4	93.6	9.5	8.4	6.6	93.6	77.0	8.8	7.8	2	6	
2299	Textile goods, n.e.c.	6.2	93.0	80.2	7.0	5.8	6.1	86.7	76.0	6.0	4.5	2	3	
23	Apparel and other textile products	1 190.5	14 954.8	12 789.4	1 169.7	995.7	1 189.0	14 116.1	12 128.8	1 079.4	907.8	2	2	
231	Men's and boys' suits and coats	70.8	1 016.0	849.6	80.8	85.6	75.2	1 049.8	878.2	84.3	87.3	2	2	
2311	Men's and boys' suits and coats	70.8	1 016.0	849.6	80.8	85.6	75.2	1 049.8	878.2	84.3	87.3	2	2	
232	Men's and boys' furnishings	302.0	3 569.2	3 010.6	297.1	261.5	298.9	3 332.0	2 836.6	264.6	230.7	3	3	
2321	Men's and boys' shirts and nightwear	88.3	1 017.5	854.3	82.6	80.6	88.7	969.9	819.0	77.9	73.0	3	3	
2322	Men's and boys' underwear	10.3	116.2	97.4	8.3	10.5	11.0	117.6	99.1	8.2	10.3	1	1	
2323	Men's and boys' neckwear	7.1	124.8	110.4	7.0	7.5	6.7	92.2	82.2	4.9	5.1	22	26	
2327	Men's and boys' separate trousers	59.1	741.7	615.4	59.1	67.2	56.9	670.8	564.9	52.8	53.1	4	8	
2328	Men's and boys' work clothing	89.0	1 023.2	859.6	94.0	69.6	91.0	986.6	838.7	82.1	65.8	4	4	
2329	Men's and boys' clothing, n.e.c.	48.2	545.8	473.6	46.1	26.1	44.6	494.9	432.8	38.7	23.4	14	5	
233	Women's and misses' outerwear	426.3	5 071.0	4 455.4	384.7	230.9	418.9	4 655.2	4 110.4	343.4	201.4	5	4	
2331	Women's and misses' blouses	93.1	1 039.0	921.2	73.9	43.9	92.2	987.3	874.7	71.2	41.4	6	7	
2335	Women's and misses' dresses	148.6	1 734.4	1 543.0	124.2	67.3	137.9	1 423.0	1 268.3	100.5	54.2	12	9	
2337	Women's and misses' suits and coats	76.4	1 014.5	881.3	77.2	56.0	78.2	992.7	871.1	73.4	48.2	13	10	
2339	Women's and misses' outerwear, n.e.c.	108.2	1 283.0	1 109.9	109.4	63.7	110.7	1 252.2	1 096.3	90.3	57.6	5	4	
234	Women's and children's undergarments	80.4	955.2	828.9	74.0	52.3	81.6	903.8	783.1	70.7	50.0	3	6	
2341	Women's and children's underwear	66.7	779.9	677.4	59.7	42.8	67.8	736.8	640.8	56.0	40.0	3	7	
2342	Brassieres and allied garments	13.7	175.3	151.5	14.3	9.5	13.8	167.0	142.3	14.7	10.0	5	8	
235	Hats, caps, and millinery	15.4	187.7	158.4	14.9	14.4	15.7	183.6	156.8	14.2	12.6	8	10	
2351	Millinery	2.3	(S)	(S)	(S)	(S)	2.5	(S)	(S)	(S)	(S)	34	41	
2352	Hats and caps, except millinery	13.1	158.9	134.0	12.0	12.9	13.2	154.8	132.2	11.3	11.3	6	10	
236	Children's outerwear	69.2	754.0	655.7	57.4	40.9	71.3	766.9	671.2	57.3	38.4	3	3	
2361	Children's dresses and blouses	36.0	387.9	342.1	28.5	17.3	37.7	405.2	357.3	29.3	18.6	4	4	
2363	Children's coats and suits	5.8	(S)	(S)	(S)	(S)	6.1	(S)	(S)	(S)	(S)	14	20	
2369	Children's outerwear, n.e.c.	27.4	311.8	266.0	25.0	20.8	27.6	304.3	262.8	23.0	18.5	3	4	
237	Fur goods	3.4	72.4	63.5	4.7	4.2	3.4	69.6	59.6	4.6	5.4	10	31	
2371	Fur goods	3.4	72.4	63.5	4.7	4.2	3.4	69.6	59.6	4.6	5.4	10	31	

See footnotes at end of table.

Table 3. Employment and Labor Cost for Operating Manufacturing Establishments by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for column 1—		
		Employees (1,000)	Compensation (million dollars)				Employees (1,000)	Compensation (million dollars)						
			Total	Payroll	Social security and other legally required payments	Employer payments and other programs		Total	Payroll	Social security and other legally required payments	Employer payments and other programs			
A	B	C	D	E	F	G	H	I	J	D	E			
23	Apparel and other textile products—Con.													
238	Miscellaneous apparel and accessories.....	47.3	601.5	516.3	45.0	40.1	50.0	588.4	512.5	41.5	34.4	3	5	
2381	Fabric dress and work gloves.....	6.9	72.7	61.3	6.1	5.3	6.8	59.9	51.2	5.0	3.7	6	6	
2384	Robes and dressing gowns.....	8.1	97.8	85.1	7.3	5.4	9.3	99.1	88.0	6.8	4.3	6	6	
2385	Waterproof outer garments.....	9.0	112.8	95.1	8.8	8.9	9.3	115.1	101.1	7.5	6.5	9	9	
2386	Leather and sheep lined clothing.....	3.5	55.3	47.4	4.6	3.3	4.3	57.6	48.9	5.1	3.6	13	34	
2387	Apparel belts.....	11.1	160.8	138.2	10.7	11.8	11.7	158.0	137.1	9.9	11.0	5	7	
2389	Apparel and accessories, n.e.c.....	8.8	102.1	89.1	7.5	5.5	8.7	98.7	86.2	7.2	5.3	1	2	
239	Miscellaneous fabricated textile products.....	175.7	2 727.7	2 250.9	211.2	265.6	173.8	2 556.8	2 120.3	198.7	247.8	2	2	
2391	Curtains and draperies.....	24.0	272.9	232.5	21.5	19.0	24.1	278.6	233.7	24.8	20.1	9	11	
2392	House furnishings, n.e.c.....	46.8	594.2	503.8	47.0	43.5	49.3	611.4	518.2	47.8	45.4	3	4	
2393	Textile bags.....	8.2	109.0	94.6	8.8	5.6	7.7	102.0	89.5	7.7	4.8	5	4	
2394	Canvas and related products.....	15.2	229.3	197.1	16.8	15.5	14.8	209.4	181.2	15.6	12.6	3	5	
2395	Pleating and stitching.....	20.8	239.4	207.4	17.9	14.2	19.8	235.4	204.5	16.7	14.2	4	5	
2396	Automotive and apparel trimmings.....	27.8	794.8	600.1	59.8	134.9	26.2	674.0	505.2	48.8	120.0	2	3	
2397	Schiffli machine embroideries.....	6.8	102.9	90.4	8.2	4.2	7.0	110.0	97.4	8.3	4.3	7	15	
2399	Fabricated textile products, n.e.c.....	26.0	385.1	325.1	31.2	28.8	25.1	346.1	290.7	29.0	26.4	5	4	
24	Lumber and wood products	628.9	11 690.8	9 715.2	1 004.8	970.8	576.4	10 176.1	8 444.5	876.2	855.3	2	1	
241	Logging camps and logging contractors.....	83.5	1 568.5	1 310.8	111.7	146.0	80.8	1 449.3	1 207.9	109.5	131.9	3	3	
2411	Logging camps and logging contractors.....	83.5	1 568.5	1 310.8	111.7	146.0	80.8	1 449.3	1 207.9	109.5	131.9	3	3	
242	Sawmills and planing mills.....	168.2	3 216.8	2 635.9	292.5	288.4	157.7	2 819.9	2 305.9	257.5	256.5	2	2	
2421	Sawmills and planing mills, general.....	142.8	2 864.5	2 333.6	262.0	269.0	131.9	2 488.4	2 020.2	229.0	239.2	2	3	
2426	Hardwood dimension and flooring.....	23.6	321.4	275.2	28.2	18.0	22.9	293.9	252.6	25.5	15.8	4	5	
2429	Special product sawmills, n.e.c.....	1.7	30.9	27.2	2.4	1.4	3.0	37.6	33.1	3.0	1.5	35	37	
243	Millwork, plywood, and structural members.....	190.2	3 744.6	3 097.7	321.6	325.3	165.3	3 141.1	2 596.1	267.3	277.7	2	2	
2431	Millwork.....	67.9	1 353.1	1 125.6	113.5	110.9	56.8	1 079.5	895.4	89.4	94.7	3	2	
2434	Wood kitchen cabinets.....	49.5	793.3	678.4	64.9	49.9	43.6	707.6	606.9	56.2	44.5	4	8	
2435	Hardwood veneer and plywood.....	19.3	323.1	271.2	26.1	25.8	17.8	287.2	241.0	23.7	22.5	3	4	
2436	Softwood veneer and plywood.....	38.1	998.5	785.9	93.1	119.4	34.9	848.4	667.3	78.9	102.2	2	2	
2439	Structural wood members, n.e.c.....	15.4	276.7	236.6	23.9	16.2	12.2	218.4	185.5	19.1	13.8	6	9	
244	Wood containers.....	36.8	471.2	407.2	40.4	23.6	35.8	449.1	390.9	36.7	21.5	4	7	
2441	Nailed wood boxes and shooks.....	7.1	98.8	84.6	8.4	5.9	6.4	89.9	76.5	7.7	5.7	6	9	
2448	Wood pallets and skids.....	22.5	271.6	237.0	23.1	11.4	22.1	261.9	230.4	21.4	10.1	6	10	
2449	Wood containers, n.e.c.....	7.1	100.8	85.7	8.9	6.2	7.4	97.3	84.0	7.6	5.7	6	13	
245	Wood buildings and mobile homes.....	70.1	1 290.1	1 111.7	113.2	65.1	59.6	1 023.8	880.1	88.4	55.2	4	4	
2451	Mobile homes.....	51.9	948.2	820.8	83.6	43.8	42.8	722.1	622.4	63.4	36.3	6	4	
2452	Prefabricated wood buildings.....	18.2	341.8	290.9	29.6	21.3	16.8	301.7	257.8	25.0	18.9	4	6	
249	Miscellaneous wood products.....	80.2	1 399.6	1 151.8	125.3	122.5	77.1	1 292.9	1 063.5	117.0	112.4	7	4	
2491	Wood preserving.....	10.2	191.1	155.7	18.0	17.4	10.9	194.7	159.4	18.3	17.0	2	3	
2492	Particleboard.....	5.9	151.7	120.9	13.7	17.1	5.6	132.3	104.5	11.7	16.1	3	4	
2499	Wood products, n.e.c.....	64.1	1 056.7	875.1	93.6	88.0	60.6	965.9	799.6	87.0	79.3	9	5	
25	Furniture and fixtures	443.6	7 911.3	6 615.2	624.5	671.6	436.0	7 233.8	6 083.7	561.3	588.7	1	2	
251	Household furniture.....	266.1	4 079.5	3 453.1	329.9	296.5	263.0	3 729.8	3 161.7	296.6	271.5	1	2	
2511	Wood household furniture.....	125.7	1 809.5	1 532.0	151.6	125.8	125.6	1 656.6	1 402.7	138.5	115.4	2	2	
2512	Upholstered household furniture.....	72.5	1 097.3	944.9	83.4	69.0	70.6	975.0	849.9	68.2	56.9	3	3	
2514	Metal household furniture.....	28.3	464.3	391.2	39.0	34.1	27.0	430.1	362.4	34.8	32.9	3	4	
2515	Mattresses and bedsprings.....	25.6	462.4	387.2	37.0	38.2	25.4	429.3	357.4	36.8	35.1	5	6	
2517	Wood TV and radio cabinets.....	6.2	100.5	83.1	8.0	9.4	7.0	109.7	88.6	8.7	12.4	2	1	
2519	Household furniture, n.e.c.....	7.7	145.6	114.7	10.9	20.0	7.4	129.1	100.7	9.6	18.8	5	9	
252	Office furniture.....	59.9	1 411.7	1 140.5	107.6	163.5	58.7	1 273.2	1 050.9	93.6	128.7	2	1	
2521	Wood office furniture.....	20.8	385.0	324.0	31.0	30.0	21.0	350.0	296.1	28.0	25.9	7	5	
2522	Metal office furniture.....	39.1	1 026.7	816.5	76.7	133.5	37.8	923.2	754.8	65.6	102.8	1	1	
253	Public building and related furniture.....	19.1	381.0	318.8	31.4	30.8	18.8	351.7	294.9	28.1	28.7	5	11	
2531	Public building and related furniture.....	19.1	381.0	318.8	31.4	30.8	18.8	351.7	294.9	28.1	28.7	5	11	
254	Partitions and fixtures.....	60.2	1 284.8	1 070.9	100.8	113.1	59.7	1 228.4	1 025.0	97.9	105.5	3	3	
2541	Wood partitions and fixtures.....	31.5	662.4	560.9	52.0	49.5	31.7	636.2	543.0	51.9	41.3	4	6	
2542	Metal partitions and fixtures.....	28.7	622.5	510.0	48.8	63.6	28.0	592.2	482.0	46.0	64.2	3	4	
259	Miscellaneous furniture and fixtures.....	38.4	754.2	631.9	54.7	67.7	35.8	650.6	551.1	45.1	54.4	3	3	
2591	Draperies hardware and blinds and shades.....	16.8	316.5	257.5	25.2	33.8	15.7	276.6	223.7	21.5	31.4	2	3	
2599	Furniture and fixtures, n.e.c.....	21.6	437.8	374.4	29.5	33.9	20.1	374.0	327.4	23.6	23.0	5	5	
26	Paper and allied products	606.7	17 013.4	13 842.8	1 227.9	1 942.5	605.6	15 827.1	12 947.5	1 112.8	1 766.6	1	1	
261	Pulp mills.....	17.4	641.3	524.1	44.3	72.9	16.7	572.8	467.5	39.3	66.0	1	1	
2611	Pulp mills.....	17.4	641.3	524.1	44.3	72.9	16.7	572.8	467.5	39.3	66.0	1	1	
262	Paper mills, except building paper.....	128.6	4 596.3	3 703.5	322.3	570.4	129.0	4 221.4	3 430.6	282.5	508.3	1	1	
2621	Paper mills, except building paper.....	128.6	4 596.3	3 703.5	322.3	570.4	129.0	4 221.4	3 430.6	282.5	508.3	1	1	
263	Paperboard mills.....	53.6	1 916.7	1 558.7	135.1	222.9	55.6	1 835.5	1 501.5	127.4	206.6	1	1	
2631	Paperboard mills.....	53.6	1 916.7	1 558.7	135.1	222.9	55.6	1 835.5	1 501.5	127.4	206.6	1	1	
264	Miscellaneous converted paper products.....	213.9	5 116.8	4 180.0	371.2	565.4	213.3	4 822.1	3 960.6	343.5	518.0	2	2	
2641	Paper coating and glazing.....	41.0	1 093.6	906.8	78.2	108.6	43.1	1 057.8	882.4	77.7	97.7	2	4	
2642	Envelopes.....	24.8	561.2	464.7	43.4	53.1	24.4	515.8	428.7	40.0	47.1	2	3	
2643	Bags, except textile bags.....	50.3	1 109.5	903.4	79.0	127.1	50.2	1 039.9	850.9	72.3	116.7	3	4	
2645	Die-cut paper and board.....	16.3	332.9	271.3	25.1	36.4	15.9	297.3	245.9	22.0	29.4	6	9	
2646	Pressed and molded pulp goods.....	2.7	74.5	60.3	5.8	8.4	3.2	75.2	60.7	5.8	8.7	12	11	
2647	Sanitary paper products.....	36.7	1 131.0	900.4	77.6	152.9	36.7	1 074.7	863.3	70.5	140.9	2	1	
2648	Stationery products.....	13.1	253.3	209.9	19.4	24.0	12.6	233.8	193.1	17.8	22.9	4	4	
2649	Converted paper products, n.e.c.....	29.0	560.8	463.2	42.7	54.9	27.2	527.6	435.6	37.4	54.6	8	3	

See footnotes at end of table.

Table 3. Employment and Labor Cost for Operating Manufacturing Establishments by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for column 1—		
		Compensation (million dollars)					Compensation (million dollars)							
		Employees (1,000)	Total	Payroll	Social security and other legally required payments	Employer payments and other programs	Employees (1,000)	Total	Payroll	Social security and other legally required payments	Employer payments and other programs			
A	B	C	D	E	F	G	H	I	J	D	E			
26	Paper and allied products—Con.													
265	Paperboard containers and boxes.....	189.4	4 641.3	3 794.9	347.4	498.9	187.5	4 287.6	3 516.7	313.6	457.3	2	2	
2651	Folding paperboard boxes.....	42.6	1 082.0	874.3	81.5	126.1	43.7	1 019.6	837.6	75.7	106.3	3	4	
2652	Set-up paperboard boxes.....	12.3	196.4	162.6	16.6	17.1	10.6	160.3	134.7	13.7	11.9	11	9	
2653	Corrugated and solid fiber boxes.....	96.9	2 485.5	2 038.1	184.3	263.0	94.4	2 276.6	1 861.8	166.1	248.7	2	2	
2654	Sanitary food containers.....	23.6	543.1	444.0	41.0	58.0	24.6	525.3	430.1	37.1	58.1	2	3	
2655	Fiber cans, drums, and similar products.....	14.1	334.4	275.8	24.0	34.6	14.1	305.8	252.5	21.0	32.3	4	4	
266	Building paper and board mills.....	3.8	101.0	81.6	7.6	11.9	3.6	87.7	70.6	6.5	10.6	2	6	
2661	Building paper and board mills.....	3.8	101.0	81.6	7.6	11.9	3.6	87.7	70.6	6.5	10.6	2	6	
27	Printing and publishing.....	1 300.7	28 526.8	24 211.7	1 920.0	2 395.1	1 291.8	26 684.9	22 707.0	1 771.1	2 206.9	1	1	
271	Newspapers.....	404.1	8 356.0	7 059.1	570.1	726.8	401.5	7 745.3	6 554.7	515.9	674.7	1	2	
2711	Newspapers.....	404.1	8 356.0	7 059.1	570.1	726.8	401.5	7 745.3	6 554.7	515.9	674.7	1	2	
272	Periodicals.....	93.4	2 430.2	2 073.7	141.7	214.8	94.0	2 346.8	1 986.1	146.6	214.1	3	3	
2721	Periodicals.....	93.4	2 430.2	2 073.7	141.7	214.8	94.0	2 346.8	1 986.1	146.6	214.1	3	3	
273	Books.....	112.9	2 715.3	2 287.1	176.9	251.3	111.7	2 480.4	2 089.8	159.3	231.3	2	2	
2731	Book publishing.....	69.3	1 750.5	1 474.9	110.5	165.1	67.1	1 570.0	1 327.3	96.1	146.6	1	2	
2732	Book printing.....	43.6	964.7	812.1	66.4	86.2	44.7	910.4	762.5	63.2	84.7	3	5	
274	Miscellaneous publishing.....	44.8	840.5	712.2	55.0	73.3	45.3	818.6	705.9	49.9	62.8	4	4	
2741	Miscellaneous publishing.....	44.8	840.5	712.2	55.0	73.3	45.3	818.6	705.9	49.9	62.8	4	4	
275	Commercial printing.....	455.1	10 016.8	8 560.5	681.0	775.4	451.7	9 419.5	8 087.4	633.3	698.8	2	2	
2751	Commercial printing, letterpress.....	100.8	1 904.8	1 639.8	131.0	134.0	103.6	1 825.9	1 575.5	123.4	127.0	4	4	
2752	Commercial printing, lithographic.....	315.1	7 067.2	6 052.1	480.4	534.7	311.9	6 671.4	5 746.4	447.9	477.1	2	2	
2753	Engraving and plate printing.....	11.8	259.5	216.2	17.2	26.2	12.4	263.4	220.2	17.6	25.6	5	10	
2754	Commercial printing, gravure.....	27.3	765.3	652.4	52.3	80.6	23.8	658.7	545.2	44.4	69.1	3	2	
276	Manifold business forms.....	47.7	1 171.9	981.7	82.0	108.1	49.5	1 102.1	934.0	75.9	92.2	4	8	
2761	Manifold business forms.....	47.7	1 171.9	981.7	82.0	108.1	49.5	1 102.1	934.0	75.9	92.2	4	8	
277	Greeting card publishing.....	22.5	474.6	361.6	43.8	49.2	20.8	425.2	344.2	30.6	50.4	7	4	
2771	Greeting card publishing.....	22.5	474.6	361.6	43.8	49.2	20.8	425.2	344.2	30.6	50.4	7	4	
278	Blankbooks and bookbinding.....	62.7	1 187.0	1 000.4	88.5	98.0	61.2	1 077.3	903.1	81.9	92.8	3	4	
2782	Blankbooks and looseleaf binders.....	36.9	768.0	635.0	58.2	74.8	35.9	687.6	564.8	54.2	68.6	3	4	
2789	Bookbinding and related work.....	25.8	419.0	365.5	30.3	23.3	25.4	390.2	338.3	27.7	24.2	7	8	
279	Printing trade services.....	57.4	1 334.5	1 155.4	80.9	98.1	56.0	1 269.2	1 101.8	77.6	89.8	3	5	
2791	Typesetting.....	34.7	678.1	588.4	42.9	46.8	33.7	653.1	570.6	41.2	41.3	4	6	
2793	Photoengraving.....	3.1	74.9	61.5	4.7	8.8	3.4	74.8	64.0	4.4	6.4	1	1	
2794	Electrotyping and stereotyping.....	19.5	581.4	505.6	33.3	42.5	18.8	541.3	467.2	32.0	42.1	4	6	
2795	Lithographic platemaking services.....													
28	Chemicals and allied products.....	850.7	26 666.0	21 411.2	1 744.1	3 510.7	872.6	25 855.0	20 835.7	1 686.4	3 333.0	1	1	
281	Industrial inorganic chemicals.....	105.5	3 620.0	2 861.8	233.2	525.0	107.7	3 546.8	2 795.2	223.0	528.6	1	1	
2812	Alkalies and chlorine.....	7.3	271.4	217.9	17.7	35.9	7.6	269.5	215.7	18.8	35.0	1	1	
2813	Industrial gases.....	7.2	215.1	168.1	13.0	34.1	7.3	225.8	174.0	16.1	35.7	12	9	
2816	Inorganic pigments.....	10.8	373.7	291.6	24.1	57.9	11.2	344.4	271.3	22.0	51.1	2	3	
2819	Industrial inorganic chemicals, n.e.c.....	80.3	2 759.8	2 184.2	178.5	397.1	81.7	2 707.1	2 134.2	166.1	406.8	1	1	
282	Plastics materials and synthetics.....	134.0	4 500.0	3 541.9	277.8	680.3	141.0	4 332.9	3 450.6	265.6	616.7	1	1	
2821	Plastics materials and resins.....	53.2	1 888.2	1 505.6	121.4	261.2	54.7	1 781.6	1 433.9	111.1	236.6	2	1	
2822	Synthetic rubber.....	11.1	435.7	343.3	26.1	66.2	11.9	434.4	343.7	28.4	62.3	1	1	
2823	Cellulosic manmade fibers.....	14.4	385.9	311.0	25.9	49.1	14.2	362.2	291.0	23.8	47.4	1	1	
2824	Organic fibers, noncellulosic.....	55.3	1 790.1	1 381.9	104.4	303.8	60.2	1 754.7	1 382.0	102.3	270.4	1	1	
283	Drugs.....	168.0	5 194.0	4 229.7	339.3	624.9	165.7	4 846.8	3 965.5	314.8	566.5	1	1	
2831	Biological products.....	26.6	715.9	584.0	49.3	82.5	23.5	549.3	449.8	39.8	50.7	3	4	
2833	Medicinals and botanicals.....	17.7	565.7	472.0	30.7	63.0	17.8	555.9	463.2	31.0	61.7	1	1	
2834	Pharmaceutical preparations.....	123.7	3 912.4	3 173.7	259.3	479.4	124.4	3 741.6	3 052.5	244.0	445.1	1	1	
284	Soaps, cleaners, and toilet goods.....	126.8	3 295.6	2 673.8	237.3	384.5	127.3	3 177.0	2 581.1	225.6	370.3	2	2	
2841	Soap and other detergents.....	35.5	1 083.8	860.5	77.2	146.1	35.4	1 035.5	827.1	69.8	138.6	4	4	
2842	Polishes and sanitation goods.....	21.2	523.9	432.0	39.9	51.9	23.0	539.0	443.7	40.3	55.0	4	5	
2843	Surface active agents.....	9.3	283.9	238.8	17.7	27.4	8.5	246.4	208.2	14.2	24.0	5	7	
2844	Toilet preparations.....	60.9	1 404.1	1 142.5	102.5	159.1	60.4	1 356.1	1 102.1	101.3	152.7	1	1	
285	Paints and allied products.....	53.6	1 469.9	1 207.7	101.4	160.9	54.1	1 411.4	1 157.7	95.0	158.7	2	3	
2851	Paints and allied products.....	53.6	1 469.9	1 207.7	101.4	160.9	54.1	1 411.4	1 157.7	95.0	158.7	2	3	
286	Industrial organic chemicals.....	136.7	5 117.2	4 073.2	312.8	731.2	143.6	5 015.0	4 004.7	320.9	689.4	1	1	
2861	Gum and wood chemicals.....	3.6	110.0	86.6	7.1	16.3	4.5	99.7	82.5	7.3	9.9	4	7	
2865	Cyclic crudes and intermediates.....	26.4	941.7	749.5	63.7	128.5	27.3	918.3	731.0	61.3	126.0	1	1	
2869	Industrial organic chemicals, n.e.c.....	106.7	4 065.5	3 237.1	242.0	586.5	111.8	3 997.1	3 191.3	252.3	553.5	1	1	
287	Agricultural chemicals.....	46.0	1 317.6	1 074.4	86.7	156.5	50.9	1 410.0	1 155.8	91.2	163.0	2	2	
2873	Nitrogenous fertilizers.....	8.7	281.7	231.0	18.3	32.4	10.4	323.8	268.1	20.2	35.5	2	2	
2874	Phosphatic fertilizers.....	12.9	373.3	308.0	25.5	39.8	14.3	401.6	328.2	27.7	45.7	2	4	
2875	Fertilizers, mixing only.....	9.3	172.9	146.1	12.7	14.1	9.8	183.0	155.7	12.8	14.5	12	11	
2879	Agricultural chemicals, n.e.c.....	15.0	489.7	389.3	30.2	70.2	16.5	501.6	403.8	30.5	67.3	1	1	
289	Miscellaneous chemical products.....	80.3	2 151.6	1 748.6	155.6	247.4	82.3	2 115.1	1 725.1	150.3	239.7	3	2	
2891	Adhesives and sealants.....	18.2	474.2	384.5	38.0	51.7	18.2	450.6	366.0	35.6	49.0	7	5	
2892	Explosives.....	12.0	338.3	266.9	23.9	47.5	12.3	316.6	253.3	21.5	41.8	4	2	
2893	Printing ink.....	9.8	264.5	222.5	19.2	22.7	9.9	254.1	214.1	19.1	20.9	3	7	
2895	Carbon black.....	2.0	70.7	57.1	4.0	9.6	2.1	70.0	54.9	4.0	11.1	4	4	
2899	Chemical preparations, n.e.c.....	38.3	1 003.8	817.5	70.5	115.8	39.7	1 023.8	836.8	70.1	116.9	4	4	

See footnotes at end of table.

Table 3. Employment and Labor Cost for Operating Manufacturing Establishments by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for column¹—	
		Employees (1,000)	Compensation (million dollars)				Employees (1,000)	Compensation (million dollars)					
			Total	Payroll	Social security and other legally required payments	Employer payments and other programs		Total	Payroll	Social security and other legally required payments	Employer payments and other programs		
A	B	C	D	E	F	G	H	I	J	D	E		
29	Petroleum and coal products	146.3	5 550.0	4 409.1	345.6	795.3	151.6	5 455.0	4 338.7	338.7	777.6	1	1
291	Petroleum refining	103.5	4 373.6	3 440.4	250.9	682.3	108.3	4 316.7	3 397.9	249.3	669.5	1	1
2911	Petroleum refining	103.5	4 373.6	3 440.4	250.9	682.3	108.3	4 316.7	3 397.9	249.3	669.5	1	1
295	Paving and roofing materials	29.5	806.3	656.3	72.4	77.6	29.5	763.8	629.1	66.0	68.6	3	2
2951	Paving mixtures and blocks	15.0	410.8	343.4	35.6	31.8	15.2	405.3	340.5	33.8	31.0	3	3
2952	Asphalt felts and coatings	14.5	395.4	312.9	36.7	45.8	14.2	358.5	288.7	32.2	37.6	4	3
299	Miscellaneous petroleum and coal products	13.3	370.1	312.5	22.3	35.4	13.8	374.5	311.7	23.4	39.4	7	8
2992	Lubricating oils and greases	11.1	309.0	261.6	19.0	28.4	11.9	317.0	266.2	19.3	31.5	9	10
2999	Petroleum and coal products, n.e.c.	2.2	61.1	50.9	3.3	6.9	2.0	57.5	45.5	4.1	7.9	2	3
30	Rubber and miscellaneous plastics products	684.4	15 268.6	12 305.4	1 222.7	1 740.4	681.7	14 345.9	11 596.8	1 143.4	1 605.7	1	1
301	Tires and inner tubes	66.9	2 406.5	1 857.2	191.9	357.4	70.3	2 271.1	1 733.9	184.9	352.3	1	1
3011	Tires and inner tubes	66.9	2 406.5	1 857.2	191.9	357.4	70.3	2 271.1	1 733.9	184.9	352.3	1	1
302	Rubber and plastics footwear	17.3	242.8	200.0	26.1	16.7	17.6	236.3	196.5	21.9	17.9	1	1
3021	Rubber and plastics footwear	17.3	242.8	200.0	26.1	16.7	17.6	236.3	196.5	21.9	17.9	1	1
303	Reclaimed rubber	.7	14.7	11.5	.8	2.4	.7	14.8	11.2	.9	2.7	10	14
3031	Reclaimed rubber	.7	14.7	11.5	.8	2.4	.7	14.8	11.2	.9	2.7	10	14
304	Rubber and plastics hose and belting	22.3	613.6	453.7	48.0	111.9	24.9	654.1	503.1	49.0	102.0	1	1
3041	Rubber and plastics hose and belting	22.3	613.6	453.7	48.0	111.9	24.9	654.1	503.1	49.0	102.0	1	1
306	Fabricated rubber products, n.e.c.	91.2	2 124.2	1 695.0	169.7	269.4	89.4	1 943.9	1 561.1	150.7	232.1	1	1
3069	Fabricated rubber products, n.e.c.	91.2	2 124.2	1 695.0	169.7	269.4	89.4	1 943.9	1 561.1	150.7	232.1	1	1
307	Miscellaneous plastics products	486.0	9 866.8	8 098.1	786.1	982.6	478.9	9 225.7	7 591.0	736.0	898.7	2	2
3079	Miscellaneous plastics products	486.0	9 866.8	8 098.1	786.1	982.6	478.9	9 225.7	7 591.0	736.0	898.7	2	2
31	Leather and leather products	188.8	2 640.9	2 225.1	219.2	196.6	199.8	2 622.2	2 218.5	209.6	194.0	2	2
311	Leather tanning and finishing	19.5	404.8	332.0	37.1	35.7	19.5	377.1	310.6	31.1	35.4	4	6
3111	Leather tanning and finishing	19.5	404.8	332.0	37.1	35.7	19.5	377.1	310.6	31.1	35.4	4	6
313	Boot and shoe cut stock and findings	6.3	87.8	75.7	6.2	5.9	6.8	96.2	80.8	7.5	7.9	11	13
3131	Boot and shoe cut stock and findings	6.3	87.8	75.7	6.2	5.9	6.8	96.2	80.8	7.5	7.9	11	13
314	Footwear, except rubber	113.4	1 472.5	1 236.5	124.0	112.0	121.4	1 483.4	1 250.2	122.6	110.6	1	1
3142	House slippers	6.4	76.5	64.2	5.9	6.4	7.5	84.4	71.3	6.4	6.7	4	5
3143	Men's footwear, except athletic	43.0	592.6	494.1	49.2	49.4	46.5	598.7	503.1	46.9	48.7	1	2
3144	Women's footwear, except athletic	46.5	588.3	495.4	52.3	40.6	48.4	571.9	483.1	49.6	39.2	1	2
3149	Footwear, except rubber, n.e.c.	17.4	215.1	182.9	16.6	15.6	19.1	228.4	192.7	19.7	16.0	3	4
315	Leather gloves and mittens	3.5	36.1	31.8	2.5	1.8	3.9	41.6	36.6	3.0	2.0	15	22
3151	Leather gloves and mittens	3.5	36.1	31.8	2.5	1.8	3.9	41.6	36.6	3.0	2.0	15	22
316	Luggage	15.3	241.8	206.8	19.8	15.1	16.0	228.8	193.8	19.5	15.5	8	7
3161	Luggage	15.3	241.8	206.8	19.8	15.1	16.0	228.8	193.8	19.5	15.5	8	7
317	Handbags and other personal leather goods	24.3	311.8	266.4	23.5	21.9	25.3	309.5	271.1	20.2	18.2	4	4
3171	Women's handbags and purses	14.5	168.4	149.2	11.8	7.4	15.4	174.9	158.5	9.7	6.7	8	10
3172	Personal leather goods, n.e.c.	9.8	143.4	117.2	11.7	14.6	9.9	134.6	112.6	10.5	11.5	2	3
319	Leather goods, n.e.c.	6.6	86.1	75.9	6.0	4.2	7.0	85.7	75.6	5.7	4.4	7	11
3199	Leather goods, n.e.c.	6.6	86.1	75.9	6.0	4.2	7.0	85.7	75.6	5.7	4.4	7	11
32	Stone, clay, and glass products	525.8	13 067.2	10 517.8	1 073.3	1 476.0	531.5	12 534.0	10 096.7	990.4	1 438.7	1	1
321	Flat glass	15.7	596.8	448.6	41.4	106.8	15.3	568.7	413.8	39.1	115.8	1	2
3211	Flat glass	15.7	596.8	448.6	41.4	106.8	15.3	568.7	413.8	39.1	115.8	1	2
322	Glass and glassware, pressed or blown	92.4	2 667.5	2 080.9	216.7	369.9	96.6	2 585.0	2 032.4	205.5	347.1	1	1
3221	Glass containers	55.0	1 660.4	1 295.0	137.2	228.2	59.0	1 658.0	1 306.4	133.8	217.8	1	1
3229	Pressed and blown glass, n.e.c.	37.4	1 007.2	785.9	79.6	141.7	37.6	927.0	726.0	71.7	129.3	1	1
323	Products of purchased glass	42.8	918.8	741.1	76.3	101.5	41.3	860.7	696.3	65.3	99.1	2	2
3231	Products of purchased glass	42.8	918.8	741.1	76.3	101.5	41.3	860.7	696.3	65.3	99.1	2	2
324	Cement, hydraulic	23.1	830.0	639.6	59.3	131.1	24.6	823.9	636.4	57.0	130.5	2	4
3241	Cement, hydraulic	23.1	830.0	639.6	59.3	131.1	24.6	823.9	636.4	57.0	130.5	2	4
325	Structural clay products	32.6	666.6	540.4	57.5	68.7	29.9	608.4	490.5	54.0	63.9	4	4
3251	Brick and structural clay tile	15.4	270.6	229.9	22.8	17.8	12.5	218.2	185.4	19.9	12.9	5	12
3253	Ceramic wall and floor tile	8.2	152.1	127.2	12.7	12.2	7.5	136.5	114.2	11.0	11.3	10	6
3255	Clay refractories	6.9	199.1	147.1	17.5	34.6	7.6	208.9	155.2	18.6	35.1	5	5
3259	Structural clay products, n.e.c.	2.2	44.9	36.2	4.5	4.1	2.3	44.8	35.7	4.5	4.6	7	6
326	Pottery and related products	37.5	777.2	620.2	69.0	88.0	37.4	737.9	598.0	63.1	76.8	2	2
3261	Vitreous plumbing fixtures	8.7	210.3	165.1	19.5	25.6	7.9	179.5	142.9	16.4	20.2	3	3
3262	Vitreous china food utensils	6.0	123.3	96.8	10.9	15.6	6.3	122.1	98.0	10.8	13.3	3	3
3263	Fine earthenware food utensils	2.6	40.1	32.5	3.8	3.8	3.0	45.3	37.1	3.9	4.3	15	14
3264	Porcelain electrical supplies	10.1	246.7	197.0	19.8	29.9	10.1	244.2	197.1	19.2	27.9	3	5
3269	Pottery products, n.e.c.	10.1	156.9	128.7	15.1	13.1	10.1	146.8	122.9	12.8	11.1	6	6
327	Concrete, gypsum, and plaster products	168.4	3 753.7	3 165.7	324.6	263.4	167.2	3 555.1	2 494.6	296.4	264.3	3	4
3271	Concrete block and brick	15.9	333.3	282.4	30.9	20.0	15.5	305.3	261.9	26.3	17.1	6	11
3272	Concrete products, n.e.c.	54.2	1 154.6	960.0	112.4	82.3	55.7	1 157.5	961.7	110.4	85.4	4	5
3273	Ready-mixed concrete	83.8	1 872.8	1 602.0	149.9	121.0	81.4	1 732.6	1 475.3	133.3	124.0	4	7
3274	Lime	5.2	134.4	109.9	11.0	13.5	5.6	134.2	108.6	10.4	15.2	3	6
3275	Gypsum products	9.4	258.5	211.5	20.5	26.5	9.1	225.5	186.9	16.0	22.6	5	4
328	Cut stone and stone products	10.2	185.9	158.3	14.7	12.8	10.5	183.0	155.9	14.5	12.6	2	2
3281	Cut stone and stone products	10.2	185.9	158.3	14.7	12.8	10.5	183.0	155.9	14.5	12.6	2	2

See footnotes at end of table.

Table 3. Employment and Labor Cost for Operating Manufacturing Establishments by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for column ¹ —				
		Compensation (million dollars)				Social security and other legally required payments	Compensation (million dollars)				Employer payments and other programs					
		Employees (1,000)	Total	Payroll	Employer payments and other programs		Employees (1,000)	Total	Payroll	Social security and other legally required payments						
		A	B	C	D	E	F	G	H	I	J	D	E			
32	Stone, clay, and glass products—Con.															
329	Miscellaneous nonmetallic mineral products	103.1	2 670.6	2 123.0	213.8	333.8	108.8	2 611.3	2 079.0	203.4	328.8	2	2			
3291	Abrasive products	24.8	680.5	535.4	46.8	98.4	26.0	680.2	531.8	49.2	99.2	2	2			
3292	Asbestos products	8.6	214.1	173.7	17.5	22.9	9.7	222.2	179.8	18.9	23.5	6	5			
3293	Gaskets, packing, and sealing devices	29.4	628.0	497.8	55.4	74.8	30.3	615.4	495.4	48.9	71.1	3	3			
3295	Minerals, ground or treated	10.7	280.4	225.7	24.0	30.6	10.0	235.2	190.3	19.0	25.9	8	6			
3296	Mineral wool	19.5	594.6	476.2	47.0	71.4	19.7	550.7	438.9	42.5	69.3	2	2			
3297	Nonclay refractories	5.6	172.6	129.5	14.6	28.5	6.8	194.5	148.4	16.3	29.8	5	6			
3299	Nonmetallic mineral products, n.e.c.	4.4	100.4	84.8	8.3	7.2	6.5	113.1	94.5	8.6	10.0	20	43			
33	Primary metal industries	771.2	25 987.0	19 259.6	2 057.4	4 670.0	854.1	27 550.4	20 602.7	2 001.4	4 945.9	1	1			
331	Blast furnace and basic steel products	314.0	12 581.2	8 849.7	1 013.5	2 718.0	365.7	14 151.9	10 262.0	961.8	2 928.1	1	1			
3312	Blast furnaces and steel mills	249.2	10 604.6	7 353.3	860.8	2 390.5	295.8	12 067.4	8 677.9	806.3	2 583.2	1	1			
3313	Electrometallurgical products	4.4	137.2	100.9	10.6	25.7	5.3	168.3	123.5	12.4	32.4	2	3			
3315	Steel wire and related products	22.5	595.6	461.5	48.7	85.4	22.2	569.5	444.5	47.3	77.7	2	4			
3316	Cold finishing of steel shapes	14.8	526.6	396.9	40.8	88.9	15.4	490.4	367.9	35.4	87.1	2	2			
3317	Steel pipe and tubes	23.1	717.1	537.1	52.6	127.4	27.0	856.2	648.1	60.4	147.7	2	2			
332	Iron and steel foundries	137.9	3 940.5	3 030.1	321.5	588.9	157.4	4 153.0	3 113.1	351.8	688.1	2	2			
3321	Gray iron foundries	91.8	2 685.8	2 072.2	211.8	401.7	97.3	2 637.5	1 965.0	217.5	455.0	2	2			
3322	Malleable iron foundries	5.4	164.4	125.2	12.7	26.6	6.5	181.6	135.7	14.0	31.9	6	5			
3324	Steel investment foundries	15.2	368.6	291.9	32.1	44.6	16.8	376.4	299.4	34.9	42.1	3	3			
3325	Steel foundries, n.e.c.	25.4	721.7	540.8	64.9	116.0	36.9	957.5	713.0	85.4	159.1	3	5			
333	Primary nonferrous metals	40.8	1 689.2	1 255.5	119.9	313.8	43.9	1 732.4	1 306.6	113.9	311.9	1	1			
3331	Primary copper	6.7	285.5	203.7	24.1	57.7	7.6	291.0	216.9	19.0	55.1	1	1			
3332	Primary lead	(D)	(D)	(D)	(D)	(D)	2.2	72.6	57.3	4.8	10.5	(D)	(D)			
3333	Primary zinc	1.6	60.5	47.2	4.2	9.2	2.0	69.4	54.1	4.6	10.7	1	1			
3334	Primary aluminum	21.4	973.3	712.9	65.6	194.8	22.9	993.8	733.1	65.7	195.0	1	1			
3339	Primary nonferrous metals, n.e.c.	(D)	(D)	(D)	(D)	(D)	9.2	305.6	245.2	19.8	40.6	(D)	(D)			
334	Secondary nonferrous metals	17.2	473.3	376.3	40.5	56.4	19.2	504.5	402.2	42.5	59.8	2	1			
3341	Secondary nonferrous metals	17.2	473.3	376.3	40.5	56.4	19.2	504.5	402.2	42.5	59.8	2	1			
335	Nonferrous rolling and drawing	161.9	4 648.4	3 773.2	354.0	721.3	166.7	4 677.0	3 636.2	339.5	701.4	1	1			
3351	Copper rolling and drawing	22.8	660.0	511.2	51.6	97.1	23.3	610.6	468.2	47.4	95.0	1	1			
3353	Aluminum sheet, plate, and foil	28.1	1 183.3	907.4	75.2	200.6	27.7	1 129.4	862.1	75.3	192.0	1	1			
3354	Aluminum extruded products	26.0	692.6	538.4	56.8	97.4	25.7	636.3	499.0	47.6	89.7	2	2			
3355	Aluminum rolling and drawing, n.e.c.	2.2	76.2	57.9	5.0	13.3	2.6	88.3	65.0	5.5	17.8	2	1			
3356	Nonferrous rolling and drawing, n.e.c.	18.9	603.3	466.3	42.8	94.3	20.0	601.7	472.2	39.7	69.8	1	1			
3357	Nonferrous wire drawing and insulating	63.9	1 633.1	1 291.9	122.6	218.6	67.6	1 610.7	1 269.6	124.0	217.1	1	2			
336	Nonferrous foundries	74.2	1 821.5	1 459.9	157.5	204.1	75.4	1 727.0	1 385.1	144.1	197.8	3	2			
3361	Aluminum foundries	47.8	1 216.4	972.7	99.8	143.8	49.2	1 162.4	926.2	94.8	141.4	2	2			
3362	Brass, bronze, and copper foundries	11.3	252.3	204.0	22.3	26.0	11.8	248.7	201.8	20.2	26.7	5	7			
3369	Nonferrous foundries, n.e.c.	15.1	352.9	283.2	35.3	34.3	14.4	315.9	257.1	29.1	29.7	8	5			
339	Miscellaneous primary metal products	25.3	633.1	514.9	50.6	67.6	25.9	604.6	497.5	48.1	58.9	5	7			
3398	Metal heat treating	16.9	379.6	314.9	32.2	32.6	17.7	387.3	324.2	32.8	30.3	4	6			
3399	Primary metal products, n.e.c.	8.4	253.4	200.0	18.4	35.0	8.2	217.3	173.4	15.3	28.6	12	11			
34	Fabricated metal products	1 418.0	35 826.5	28 823.7	2 821.0	4 181.7	1 459.7	35 115.7	28 282.6	2 707.0	4 126.2	1	1			
341	Metal cans and shipping containers	56.4	1 975.0	1 544.4	148.2	282.4	58.9	1 967.2	1 533.0	142.8	291.4	1	1			
3411	Metal cans	46.2	1 725.1	1 344.3	131.0	249.8	49.0	1 723.5	1 334.5	126.8	262.2	1	1			
3412	Metal barrels, drums, and pails	10.2	249.9	200.1	17.1	32.6	9.9	243.8	198.6	16.0	29.2	6	9			
342	Cutlery, hand tools, and hardware	142.3	3 529.1	2 819.7	272.5	436.8	140.9	3 247.2	2 584.5	244.5	418.2	1	2			
3421	Cutlery	12.2	275.0	222.1	22.3	30.5	13.0	280.0	223.7	22.7	33.6	3	3			
3423	Hand and edge tools, n.e.c.	40.0	908.3	735.0	69.9	103.4	40.4	872.3	706.5	69.8	96.0	3	4			
3425	Hand saws and saw blades	7.8	177.5	145.1	13.8	18.6	7.4	166.2	133.4	12.9	19.9	8	12			
3429	Hardware, n.e.c.	82.3	2 168.3	1 717.4	166.5	284.3	80.1	1 928.7	1 520.9	139.1	268.7	2	2			
343	Plumbing and heating, except electric	49.0	1 084.5	872.2	91.6	120.7	47.9	1 019.4	820.7	85.2	113.5	2	2			
3431	Metal sanitary ware	7.7	202.2	159.2	16.6	26.4	7.5	177.4	139.4	15.1	22.9	2	1			
3432	Plumbing fittings and brass goods	15.4	333.5	265.6	29.2	38.7	14.4	298.6	237.9	24.7	36.0	2	2			
3433	Heating equipment, except electric	25.9	548.8	447.4	45.8	55.5	26.0	543.4	443.4	45.4	54.6	4	4			
344	Fabricated structural metal products	399.6	9 388.2	7 689.1	778.8	920.3	421.9	9 626.1	7 897.2	785.6	943.3	1	2			
3441	Fabricated structural metal	93.8	2 243.0	1 842.4	200.3	200.3	103.6	2 413.0	1 990.2	208.2	214.6	2	2			
3442	Metal doors, sash, and trim	70.5	1 337.5	1 110.9	110.2	116.5	66.3	1 217.1	1 015.8	96.4	104.9	2	2			
3443	Fabricated plate work (boiler shops)	88.5	2 385.3	1 921.1	191.6	273.1	102.9	2 707.7	2 180.3	219.9	307.5	2	2			
3444	Sheet metal work	81.8	1 922.2	1 584.7	150.7	186.8	81.1	1 803.9	1 494.6	138.4	170.9	3	3			
3446	Architectural metal work	22.8	488.9	400.9	43.8	44.2	22.8	449.3	366.0	40.8	42.5	8	5			
3448	Prefabricated metal buildings	22.3	511.6	424.3	41.7	45.6	23.7	525.8	435.7	41.7	48.4	3	5			
3449	Miscellaneous metal work	19.9	499.2	404.8	40.6	53.8	21.5	509.4	414.7	40.2	54.5	3	3			
345	Screw machine products, bolts, etc.	90.4	2 185.7	1 778.0	168.6	239.1	94.0	2 120.2	1 726.9	158.4	234.9	2	3			
3451	Screw machine products	40.9	878.5	737.6	67.9	73.0	41.8	850.7	718.9	61.7	70.1	3	5			
3452	Bolts, nuts, rivets, and washers	49.5	1 307.2	1 040.4	100.7	166.2	52.2	1 269.6	1 008.1	96.7	164.8	2	3			
346	Metal forgings and stampings	240.0	7 265.5	5 634.5	563.1	1 067.9	236.3	6 608.9	5 110.2	496.7	1 002.0	2	2			
3462	Iron and steel forgings	25.0	791.9	597.4	65.7	128.8	30.7	912.8	690.7	74.3	147.8	1	1			
3463	Nonferrous forgings	8.6	299.3	225.7	21.9	51.7	7.9	264.8	200.7	19.4	44.7	1	1			
3465	Automotive stampings	96.6	3 618.1	2 729.6	272.2	616.3	90.5	3 081.7	2 292.6	220.0	569.1	2	2			
3466	Crowns and closures	7.1	213.0	161.1	18.5	33.4	6.7	186.7	143.5	16.1	27.1	5	5			
3469	Metal stampings, n.e.c.	102.9	2 343.2	1 920.7	184.9	237.6	100.4	2 162.9	1 782.7	166.9	213.3	3	4			
347	Metal services, n.e.c.	98.9	1 843.3	1 541.3	158.1	143.8	98.9	1 811.1	1 518.2	151.1	141.8	9	5			
3471	Plating and polishing	65.7	1 142.3	961.6	105.4	75.2	61.9	1 089.2	919.0	96.1	74.1	12	7			
3479	Metal coating and allied services	33.2	701.0	579.6	52.8	68.6	35.0	721.8	599.1	55.0	67.7	4	6			
348	Ordinance and accessories, n.e.c.	77.1	2 278.6	1 817.1	157.6	303.9	79.4	2 215.9	1 779.7	154.0	282.2	1	1			
3482	Small arms ammunition	10.0	304.5	238.4	21.3	44.7	10.1	281.5	221.6	18.6	41.3	1	1			
3483	Ammunition, except for small arms, n.e.c.	25.9	712.0	565.9	54.5	91.6	24.4	630.0	497.5	49.9	82.6	2	2			
3484	Small arms	14.4	369.0	296.5	24.6	47.9	17.4	417.7	338.2	30.5	49.0	3	3			
3489	Ordinance and accessories, n.e.c.	26.7	893.1	716.2	57.1	119.7	27.5	886.7	722.4							

See footnotes at end of table

Table 3. Employment and Labor Cost for Operating Manufacturing Establishments by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for column¹—		
		Compensation (million dollars)					Compensation (million dollars)							
		Employees (1,000)	Total	Payroll	Social security and other legally required payments	Employer payments and other programs	Employees (1,000)	Total	Payroll	Social security and other legally required payments	Employer payments and other programs			
A	B	C	D	E	F	G	H	I	J	D	E			
34	Fabricated metal products—Con.													
349	Miscellaneous fabricated metal products...	264.3	6 276.7	5 127.4	482.5	666.8	283.6	6 499.6	5 312.1	488.8	698.7	1	1	
3493	Steel springs, except wire	4.9	131.5	102.5	10.0	18.9	5.2	133.1	103.5	10.1	19.5	3	3	
3494	Valves and pipe fittings	100.9	2 645.3	2 147.5	196.0	301.8	115.2	2 868.4	2 334.6	209.3	324.5	1	1	
3495	Wire springs	19.7	412.2	339.8	33.6	38.8	17.9	358.9	294.1	28.5	36.3	8	8	
3496	Miscellaneous fabricated wire products	37.9	756.1	630.3	57.9	67.8	36.8	699.9	580.3	53.3	66.3	2	3	
3497	Metal foil and leaf	10.5	318.4	249.7	23.7	45.1	10.8	308.0	243.1	21.9	43.0	1	1	
3498	Fabricated pipe and fittings	29.3	731.9	596.1	59.5	76.3	32.7	793.2	650.7	61.0	81.5	3	3	
3499	Fabricated metal products, n.e.c.	61.1	1 281.4	1 061.5	101.8	118.0	65.0	1 338.1	1 105.8	104.7	127.6	3	3	
35	Machinery, except electrical	1 989.5	55 507.1	45 106.7	3 920.6	6 479.8	2 188.7	57 761.5	46 910.7	4 017.4	6 833.1	1	1	
351	Engines and turbines	95.6	3 443.6	2 641.7	232.7	569.2	112.0	3 686.2	2 849.7	242.7	593.8	1	1	
3511	Turbines and turbine generator sets	25.0	963.9	743.0	57.6	163.4	32.4	1 111.3	870.8	71.2	169.3	1	1	
3519	Internal combustion engines, n.e.c.	70.6	2 479.7	1 898.8	175.1	405.8	79.6	2 575.0	1 979.0	171.5	424.5	1	1	
352	Farm and garden machinery	100.8	2 799.2	2 165.6	205.6	428.0	113.8	3 111.5	2 385.6	216.8	509.1	1	1	
3523	Farm machinery and equipment	82.0	2 386.4	1 827.9	173.1	385.4	96.1	2 720.3	2 067.4	186.1	466.8	1	1	
3524	Lawn and garden equipment	18.8	412.8	337.6	32.5	42.6	17.8	391.1	318.1	30.7	42.3	3	2	
353	Construction and related machinery	246.8	7 337.6	5 794.6	572.6	970.5	325.8	9 232.7	7 332.3	684.8	1 215.6	1	1	
3531	Construction machinery	91.9	2 976.6	2 262.6	229.5	484.5	115.5	3 489.6	2 653.1	260.5	576.0	1	1	
3532	Mining machinery	16.9	478.5	373.2	37.2	68.1	24.6	664.9	522.1	50.2	92.6	1	1	
3533	Oil field machinery	62.9	1 814.9	1 492.7	138.1	184.1	98.5	2 836.8	2 341.9	197.0	297.9	2	2	
3534	Elevators and moving stairways	11.6	336.0	270.1	28.2	37.7	13.0	335.3	270.7	27.9	36.7	4	8	
3535	Conveyors and conveying equipment	31.5	852.7	701.4	68.7	82.7	36.6	911.0	759.1	70.0	81.9	2	2	
3536	Hoists, cranes, and monorails	10.9	296.7	234.8	23.6	38.2	13.7	363.3	290.7	29.2	43.4	2	2	
3537	Industrial trucks and tractors	21.0	582.3	459.8	47.3	75.2	24.0	631.8	494.7	50.0	87.1	2	2	
354	Metalworking machinery	245.8	6 675.8	5 496.3	477.8	701.8	283.2	7 389.2	6 086.4	513.1	789.7	1	1	
3541	Machine tools, metal cutting types	43.0	1 254.6	997.1	88.6	168.7	58.3	1 664.5	1 335.0	118.9	210.6	2	1	
3542	Machine tools, metal forming types	15.3	445.0	357.0	33.2	54.8	19.5	551.1	438.1	41.1	71.9	2	3	
3544	Special dies, tools, jigs, and fixtures	97.9	2 680.9	2 294.4	184.6	202.0	102.9	2 682.0	2 293.3	176.3	212.4	2	3	
3545	Machine tool accessories	47.3	1 190.1	958.6	85.1	146.4	55.1	1 321.7	1 069.7	92.1	159.9	2	3	
3546	Power driven hand tools	19.5	482.2	385.1	39.3	57.8	21.6	489.2	393.6	37.2	58.4	1	1	
3547	Rolling mill machinery	4.1	121.1	94.1	10.4	16.6	5.1	150.7	125.1	12.4	22.2	2	7	
3549	Metalworking machinery, n.e.c.	18.8	501.8	409.8	36.5	55.4	20.7	520.9	431.5	35.1	54.3	3	2	
355	Special industry machinery	162.6	4 425.1	3 620.2	326.9	478.0	182.5	4 549.3	3 748.1	330.2	471.0	2	2	
3551	Food products machinery	30.4	828.9	682.7	60.8	85.4	32.7	840.5	695.3	60.9	84.3	3	4	
3552	Textile machinery	17.5	390.5	324.3	29.8	36.4	19.4	388.4	322.9	29.4	36.1	4	3	
3553	Woodworking machinery	8.8	207.0	172.1	17.3	17.6	9.7	207.5	173.7	16.1	17.7	11	8	
3554	Paper industries machinery	14.1	433.3	352.0	32.5	48.8	17.8	494.2	405.8	36.0	52.4	4	6	
3555	Printing trades machinery	26.6	751.7	620.1	56.4	75.1	28.3	725.4	598.4	52.7	74.3	1	3	
3559	Special industry machinery, n.e.c.	65.0	1 813.7	1 469.0	130.1	214.7	74.5	1 893.2	1 551.9	135.1	206.2	3	4	
356	General industrial machinery	268.2	7 315.3	5 872.9	519.0	923.4	313.6	8 093.4	6 492.9	574.4	1 026.1	1	1	
3561	Pumps and pumping equipment	54.4	1 579.5	1 275.7	115.9	187.9	68.4	1 820.6	1 479.7	130.9	210.0	2	3	
3562	Ball and roller bearings	37.7	1 119.1	863.7	75.8	179.7	43.8	1 201.7	910.4	87.6	203.7	1	1	
3563	Air and gas compressors	26.2	770.4	606.1	55.8	108.5	31.8	890.0	709.3	64.9	115.8	2	3	
3564	Blowers and fans	26.8	648.2	528.8	47.8	71.6	29.8	681.3	553.6	50.9	76.8	2	3	
3565	Industrial patterns	10.2	251.9	218.9	12.8	20.2	9.8	251.0	217.6	13.5	19.9	7	9	
3566	Speed changers, drives, and gears	19.6	543.1	436.2	38.1	68.8	24.1	626.7	503.9	43.1	79.7	3	3	
3567	Industrial furnaces and ovens	13.8	339.7	267.7	26.8	45.2	16.1	393.2	312.6	29.5	51.1	3	4	
3568	Power transmission equipment, n.e.c.	22.7	637.3	497.0	47.5	92.8	26.9	713.9	553.0	50.8	110.1	3	5	
3569	General industrial machinery, n.e.c.	56.8	1 426.2	1 178.8	98.5	148.8	62.7	1 515.0	1 252.8	103.2	159.0	2	2	
357	Office and computing machines	420.8	12 760.4	10 621.3	785.4	1 353.8	404.0	11 340.7	9 436.9	707.0	1 196.8	1	1	
3573	Electronic computing equipment	354.4	10 964.2	9 130.2	670.3	1 163.7	337.9	9 657.4	8 052.7	593.6	1 011.1	1	1	
3574	Calculating and accounting machines	13.7	354.4	302.4	25.5	26.6	15.4	345.4	292.2	25.5	27.7	1	1	
3576	Scales and balances, except laboratory	6.7	159.2	128.7	10.4	20.1	7.0	156.9	128.3	10.2	18.4	4	6	
3579	Office machines, n.e.c., and typewriters	45.9	1 282.6	1 060.0	79.3	143.3	43.7	1 181.0	963.7	77.7	139.6	2	1	
358	Refrigeration and service machinery	171.9	4 458.8	3 530.4	246.1	582.3	171.7	4 206.1	3 343.6	310.3	552.2	1	1	
3581	Automatic merchandising machines	7.5	159.7	132.9	11.5	15.3	7.4	149.9	123.3	11.8	14.8	4	4	
3582	Commercial laundry equipment	4.5	104.4	85.6	8.1	10.7	4.7	97.8	83.0	7.1	7.7	7	8	
3585	Refrigeration and heating equipment	122.1	3 289.2	2 565.0	261.0	463.2	120.5	3 063.9	2 393.2	228.4	442.3	1	1	
3586	Measuring and dispensing pumps	7.4	193.8	157.6	14.3	22.0	8.1	196.5	160.0	14.0	22.5	1	3	
3589	Service industry machinery, n.e.c.	30.5	711.7	589.5	51.1	71.1	31.0	697.9	584.0	49.0	64.9	2	3	
359	Miscellaneous machinery, except electrical	277.0	6 291.2	5 363.7	454.0	473.0	282.1	6 152.5	5 235.4	438.0	479.1	2	3	
3592	Carburetors, pistons, rings, valves	29.8	967.4	745.5	73.0	149.0	31.2	916.4	691.9	64.5	160.0	1	2	
3599	Machinery, except electrical, n.e.c.	247.2	5 323.9	4 618.2	381.6	324.0	250.9	5 236.0	4 543.4	373.5	319.1	3	4	
36	Electric and electronic equipment	1 895.7	50 763.0	41 209.1	3 479.8	6 074.3	1 914.5	47 254.9	38 413.6	3 163.3	5 678.0	1	1	
361	Electric distributing equipment	98.9	2 452.5	1 956.2	192.7	303.5	105.3	2 470.9	1 994.6	172.9	303.4	1	1	
3612	Transformers	36.6	896.9	708.0	73.7	115.1	39.0	917.8	732.1	63.8	121.9	2	1	
3613	Switchgear and switchboard apparatus	62.3	1 555.6	1 248.2	119.0	188.4	66.3	1 553.1	1 262.5	109.1	181.5	1	2	
362	Electrical industrial apparatus	176.2	4 457.6	3 604.0	319.9	533.6	191.4	4 586.6	3 705.5	323.1	558.0	1	2	
3621	Motors and generators	80.4	1 948.6	1 555.0	150.0	243.6	84.2	1 943.7	1 546.4	141.7	255.6	1	2	
3622	Industrial controls	57.3	1 515.6	1 245.2	96.3	174.1	64.0	1 552.0	1 279.7	97.6	174.7	3	2	
3623	Welding apparatus, electric	13.7	364.5	300.1	27.3	37.2	15.0	415.4	340.8	31.0	43.6	4	5	
3624	Carbon and graphite products	10.8	310.9	246.1	23.0	41.7	12.0	329.5	258.2	27.0	44.3	5	5	
3629	Electrical industrial apparatus, n.e.c.	13.9	318.0	257.6	23.4	37.0	16.3	346.0	280.4	25.8	39.8	6	4	
363	Household appliances	128.5	3 057.6	2 418.9	245.1	393.6	129.4	2 814.0	2 223.1	217.6	373.3	1	1	
3631	Household cooking equipment	26.5	618.1	488.7	48.5	80.9	23.7	502.9	402.1	38.9	61.9	1	1	
3632	Household refrigerators and freezers	21.0	596.4	460.2	50.5									

Table 3. Employment and Labor Cost for Operating Manufacturing Establishments by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for column ¹ —	
		Employees (1,000)	Compensation (million dollars)			Employer payments and other programs	Employees (1,000)	Compensation (million dollars)					
			Total	Payroll	Social security and other legally required payments			Total	Payroll	Social security and other legally required payments			
											Employer payments and other programs		
A	B	C	D	E	F	G	H	I	J	D		E	
36	Electric and electronic equipment—Con.												
364	Electric lighting and wiring equipment	159.7	3 629.6	2 941.7	282.4	405.6	159.4	3 365.8	2 718.2	261.4	386.2	2	2
3641	Electric lamps	20.6	540.7	418.4	40.3	81.9	22.4	515.4	396.9	38.2	80.3	2	2
3643	Current-carrying wiring devices	45.9	960.8	786.5	75.0	99.3	44.5	861.2	699.8	69.5	91.9	5	4
3644	Noncurrent-carrying wiring devices	24.5	631.9	511.2	49.4	71.3	26.3	634.6	509.9	48.3	76.4	2	2
3645	Residential lighting fixtures	23.4	392.7	328.9	36.7	27.2	22.2	363.7	308.8	32.7	22.2	3	4
3646	Commercial lighting fixtures	19.6	409.1	342.1	32.9	34.1	18.9	373.9	313.3	29.1	31.5	4	4
3647	Vehicular lighting equipment	13.9	436.0	344.1	29.6	62.3	12.9	362.2	281.6	24.8	55.8	3	2
3648	Lighting equipment, n.e.c.	11.8	258.5	210.5	18.5	29.4	12.2	254.8	207.9	18.8	28.1	2	4
365	Radio and TV receiving equipment	61.9	1 537.2	1 234.7	107.5	195.0	65.6	1 429.7	1 154.3	98.2	177.2	1	2
3651	Radio and TV receiving sets	45.3	1 172.9	935.9	81.0	156.0	48.4	1 080.0	862.3	73.9	143.8	1	1
3652	Phonograph records and prerecorded tape	16.6	364.3	298.8	26.5	39.1	17.1	350.9	292.0	24.3	33.4	3	7
366	Communication equipment	606.2	18 921.1	15 403.6	1 201.3	2 316.3	600.6	17 160.3	13 979.1	1 063.1	2 118.1	1	1
3661	Telephone and telegraph apparatus	128.0	3 925.2	3 124.4	248.0	552.9	136.5	3 818.6	3 021.2	229.4	568.0	2	2
3662	Radio and TV communication equipment	478.2	14 995.9	12 279.2	953.3	1 763.4	464.1	13 341.7	10 957.9	833.7	1 550.1	1	1
367	Electronic components and accessories	515.0	12 796.2	10 605.3	859.7	1 331.1	515.8	11 835.0	9 770.1	777.9	1 287.0	1	1
3671	Electron tubes, all types	30.6	879.2	703.5	62.6	112.0	35.5	969.1	773.0	65.7	130.4	1	1
3674	Semiconductors and related devices	169.3	5 236.8	4 287.1	326.4	623.3	166.5	4 600.5	3 785.0	283.3	532.2	1	1
3675	Electronic capacitors	27.9	499.7	403.1	34.9	61.7	28.9	473.0	387.9	31.0	54.1	2	3
3676	Electronic resistors	15.8	303.4	246.7	22.9	33.8	18.3	316.5	258.4	23.5	34.6	7	12
3677	Electronic coils and transformers	26.2	409.2	346.3	31.7	31.2	23.7	344.1	293.4	27.5	23.2	4	6
3678	Electronic connectors	36.7	857.9	697.9	60.7	98.4	39.7	834.9	687.5	58.8	88.6	2	3
3679	Electronic components, n.e.c.	208.5	4 715.0	3 920.7	320.5	473.8	203.2	4 296.9	3 584.9	288.1	423.9	2	3
369	Miscellaneous electrical equipment and supplies	149.3	3 808.1	3 044.6	271.1	492.4	147.1	3 592.6	2 868.7	249.3	474.6	2	2
3691	Storage batteries	22.4	615.7	486.8	52.3	76.6	22.9	599.0	473.6	51.6	73.8	1	1
3692	Primary batteries, dry and wet	11.4	243.9	194.2	16.8	32.8	11.7	239.1	192.3	16.1	30.7	1	1
3693	X-ray, electromedical, and electrotherapeutic apparatus	45.7	1 289.4	1 076.7	83.4	129.3	47.9	1 275.4	1 066.6	81.9	126.9	2	3
3694	Engine electrical equipment	46.6	1 242.2	939.8	86.5	215.9	42.9	1 098.0	820.5	73.1	204.4	5	3
3699	Electrical equipment and supplies, n.e.c.	23.3	416.9	347.1	32.1	37.8	21.6	381.1	315.7	26.6	38.8	5	5
37	Transportation equipment	1 616.0	57 638.3	44 640.1	4 210.5	8 787.7	1 595.9	55 130.5	40 811.9	3 696.8	8 620.7	1	1
371	Motor vehicles and equipment	658.6	24 276.5	18 273.8	1 888.6	4 114.2	615.6	20 999.3	15 393.4	1 498.8	4 107.1	1	1
3711	Motor vehicles and car bodies	260.7	11 198.0	8 266.6	897.8	2 033.6	240.1	9 627.4	6 827.4	677.3	2 128.1	1	1
3713	Truck and bus bodies	26.6	596.2	490.3	44.8	61.2	28.1	605.6	497.2	46.9	61.5	4	4
3714	Motor vehicle parts and accessories	338.0	11 712.3	8 876.2	678.2	1 958.0	321.4	10 210.3	7 614.0	725.2	1 871.1	1	1
3715	Truck trailers	21.6	480.5	394.0	43.1	43.3	18.8	414.2	339.6	36.5	38.1	6	5
3716	Motor homes produced on purchased chassis	11.7	289.5	246.8	24.6	18.2	7.2	141.7	120.6	12.9	8.2	10	13
372	Aircraft and parts	527.1	19 670.0	15 450.5	1 275.3	2 944.2	538.6	18 596.5	14 717.5	1 157.9	2 721.1	1	1
3721	Aircraft	250.9	9 594.6	7 562.0	630.5	1 402.1	275.1	9 761.8	7 743.7	605.6	1 412.5	1	1
3724	Aircraft engines and engine parts	122.0	4 611.8	3 546.4	293.7	771.7	130.7	4 554.4	3 544.4	282.1	727.9	1	1
3728	Aircraft equipment, n.e.c.	154.1	5 463.6	4 342.1	351.2	770.4	132.8	4 280.3	3 429.4	270.2	580.7	1	2
373	Ship and boat building and repairing	179.9	4 879.7	3 928.9	481.8	469.0	205.0	5 372.1	4 325.8	537.7	508.6	1	2
3731	Ship building and repairing	141.0	4 136.1	3 294.8	416.3	425.0	166.7	4 682.7	3 737.7	474.7	470.3	2	2
3732	Boat building and repairing	38.5	743.6	634.1	65.5	44.0	38.3	689.4	588.1	63.0	38.3	3	4
374	Railroad equipment	25.0	867.1	634.8	78.5	153.7	34.5	1 104.1	790.4	86.7	227.0	2	3
3743	Railroad equipment	25.0	867.1	634.8	78.5	153.7	34.5	1 104.1	790.4	86.7	227.0	2	3
375	Motorcycles, bicycles, and parts	12.2	284.4	238.9	21.6	23.9	13.0	270.8	224.9	19.6	26.3	2	3
3751	Motorcycles, bicycles, and parts	12.2	284.4	238.9	21.6	23.9	13.0	270.8	224.9	19.6	26.3	2	3
376	Guided missiles, space vehicles, parts	162.6	6 389.9	5 053.4	373.1	963.4	146.3	5 740.9	4 481.1	317.1	942.7	1	1
3761	Guided missiles and space vehicles	110.7	4 374.4	3 469.3	250.0	655.1	99.6	4 069.5	3 159.4	215.5	694.6	1	1
3764	Space propulsion units and parts	27.6	1 053.6	848.8	62.6	142.3	25.3	909.2	737.1	50.7	121.4	1	1
3769	Space vehicle equipment, n.e.c.	24.4	961.9	735.4	60.5	166.0	21.4	762.2	584.6	50.9	126.7	2	1
379	Miscellaneous transportation equipment	50.7	1 270.6	1 059.8	91.6	119.3	42.9	1 048.8	878.8	79.0	89.0	1	1
3792	Travel trailers and campers	15.6	311.9	274.8	26.5	10.6	13.8	256.1	221.6	23.9	10.6	2	3
3795	Tanks and tank components	22.4	720.2	579.6	46.5	94.0	18.2	580.9	475.9	40.4	64.6	1	1
3799	Transportation equipment, n.e.c.	12.8	238.6	205.4	18.5	14.7	10.9	209.7	181.2	14.7	13.8	4	6
38	Instruments and related products	606.1	16 295.5	13 473.0	1 075.3	1 747.1	623.6	15 537.5	12 882.9	1 041.4	1 613.3	1	1
381	Engineering and scientific instruments	41.8	1 140.9	936.0	72.7	132.1	42.8	1 050.9	869.1	68.0	113.8	2	2
3811	Engineering and scientific instruments	41.8	1 140.9	936.0	72.7	132.1	42.8	1 050.9	869.1	68.0	113.8	2	2
382	Measuring and controlling devices	222.6	5 965.8	4 933.5	396.9	635.4	227.7	5 605.3	4 646.4	392.6	566.3	1	1
3822	Environmental controls	27.9	672.9	523.3	52.3	80.3	28.8	627.5	497.5	51.5	78.5	1	2
3823	Process control instruments	55.5	1 481.0	1 213.3	94.7	172.9	60.3	1 528.3	1 256.1	101.7	170.5	2	3
3824	Fluid meters and counting devices	9.8	235.0	189.7	18.2	27.1	11.1	244.1	198.0	20.0	26.1	1	1
3825	Instruments to measure electricity	89.7	2 440.5	2 052.3	161.4	226.9	89.7	2 243.5	1 886.2	154.1	201.2	2	2
3829	Measuring and controlling devices, n.e.c.	39.7	1 137.3	938.8	70.3	128.2	37.8	962.0	806.7	65.3	90.0	1	2
383	Optical instruments and lenses	51.0	1 397.0	1 158.8	93.3	144.9	50.0	1 237.4	1 025.5	82.0	129.9	1	3
3832	Optical instruments and lenses	51.0	1 397.0	1 158.8	93.3	144.9	50.0	1 237.4	1 025.5	82.0	129.9	1	3
384	Medical instruments and supplies	143.8	3 277.6	2 703.4	227.1	347.0	141.3	3 014.0	2 491.9	212.4	309.7	2	2
3841	Surgical and medical instruments	60.2	1 379.5	1 130.2	99.1	150.2	58.9	1 219.4	999.5	90.9	129.0	3	3
3842	Surgical appliances and supplies	69.3	1 573.3	1 301.5	105.7	166.0	68.8	1 461.7	1 211.1	99.8	150.8	1	2
3843	Dental equipment and supplies	14.4	324.8	271.7	22.3	30.8	15.5	332.9	281.3	21.7	29.9	5	6
385	Ophthalmic goods	24.1	479.0	396.3	37.4	45.3	25.8	492.9	408.7	38.5	45.7	1	1
3851	Ophthalmic goods	24.1	479.0	396.3	37.4	45.3	25.8	492.9	408.7	38.5	45.7	1	1
386	Photographic equipment and supplies	110.2	3 753.0	3 117.6	225.6	409.8	119.3	3 833.5	3 193.1	224.3	416.1	1	1
3861	Photographic equipment and supplies	110.2	3 753.0	3 117.6	225.6	409.8	119.3	3 833.5	3 193.1	224.3	416.1	1	1

See footnotes at end of table.

Table 3. Employment and Labor Cost for Operating Manufacturing Establishments by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for column ¹ —	
		Employees (1,000)	Compensation (million dollars)				Employees (1,000)	Compensation (million dollars)					
			Total	Payroll	Social security and other legally required payments	Employer payments and other programs		Total	Payroll	Social security and other legally required payments	Employer payments and other programs		
A	B	C	D	E	F	G	H	I	J	D	E		
38	Instruments and related products—Con.												
387	Watches, clocks, and watchcases.....	14.6	282.2	227.3	22.3	32.6	16.8	303.4	248.1	23.5	31.8	2	2
3873	Watches, clocks, and watchcases.....	14.6	282.2	227.3	22.3	32.6	16.8	303.4	248.1	23.5	31.8	2	2
39	Miscellaneous manufacturing industries ..	374.9	6 785.2	5 674.4	536.5	574.4	382.6	6 736.5	5 646.9	526.3	563.3	1	2
391	Jewelry, silverware, and plated ware	48.6	898.1	768.7	65.1	64.4	50.2	896.4	770.1	62.7	63.6	2	3
3911	Jewelry, precious metal	33.9	615.9	534.2	43.6	38.1	35.3	614.7	535.8	42.0	36.9	2	3
3914	Silverware and plated ware.....	8.4	169.9	137.4	13.3	19.2	9.1	181.7	148.3	13.6	19.8	2	4
3915	Jewelers' materials and lapidary work ..	6.4	112.4	97.1	8.1	7.1	5.8	100.1	86.1	7.1	6.9	2	6
393	Musical instruments	16.6	318.0	261.3	24.9	31.8	17.8	314.4	257.8	25.3	31.3	2	3
3931	Musical instruments	16.6	318.0	261.3	24.9	31.8	17.8	314.4	257.8	25.3	31.3	2	3
394	Toys and sporting goods	96.4	1 614.8	1 331.8	131.4	151.6	98.9	1 691.8	1 389.3	138.8	163.7	2	2
3942	Dolls	7.7	121.0	103.1	9.5	8.4	7.3	101.8	86.6	7.4	7.8	2	3
3944	Games, toys, and children's vehicles ..	43.9	693.7	565.6	57.8	70.3	43.8	772.6	625.0	68.6	79.0	2	2
3949	Sporting and athletic goods, n.e.c.	44.8	800.1	663.1	64.1	72.9	47.8	817.4	677.7	62.8	76.9	4	4
395	Pens, pencils, and office and art supplies ..	30.0	586.8	478.6	42.7	65.5	32.2	585.4	484.8	41.6	59.0	3	4
3951	Pens and mechanical pencils	9.4	199.8	158.2	16.1	25.6	11.6	210.8	174.8	15.9	20.1	6	5
3952	Lead pencils and art goods	6.2	112.3	91.3	8.7	12.3	6.0	107.6	87.5	8.3	11.8	3	12
3953	Marking devices	7.3	121.6	101.3	7.4	12.8	7.6	126.7	107.1	8.1	13.5	7	10
3955	Carbon paper and inked ribbons	7.1	153.1	127.9	10.4	14.8	6.9	138.3	115.4	9.3	13.6	3	4
396	Costume jewelry and notions	42.7	671.9	564.3	54.9	52.7	41.9	627.9	527.8	53.7	46.4	4	6
3961	Costume jewelry	23.3	345.1	290.0	28.2	27.0	21.1	311.9	263.3	26.6	22.0	4	9
3962	Artificial flowers	4.5	66.7	57.9	5.5	3.3	4.7	59.9	52.0	4.9	3.0	12	19
3963	Buttons	2.7	39.5	33.2	3.1	3.1	2.7	41.8	35.4	3.5	2.9	14	42
3964	Needles, pins, and fasteners	12.1	220.7	183.3	18.1	19.4	13.4	214.3	177.1	18.7	18.5	8	7
399	Miscellaneous manufactures	140.7	2 695.6	2 269.6	217.6	208.4	141.7	2 620.6	2 217.1	204.2	199.3	2	2
3991	Brooms and brushes	13.4	252.4	205.1	20.1	27.1	14.1	242.5	197.1	17.5	27.9	5	7
3993	Signs and advertising displays	52.7	1 024.5	881.7	85.3	57.4	52.8	1 005.8	870.7	78.6	56.5	4	6
3995	Burial caskets	10.3	181.6	151.2	16.6	13.8	10.3	175.1	145.1	14.4	15.6	15	9
3996	Hard surface floor coverings	6.2	178.6	145.7	13.2	19.8	5.3	135.3	112.1	10.0	13.2	(D)	(D)
3999	Manufacturing industries, n.e.c.	58.1	1 058.5	885.9	82.4	90.3	59.3	1 061.8	892.0	83.7	86.1	2	2

¹Description of standard error of estimate is given in Introduction under Qualifications of the Data. Percentage standard errors shown are approximate relative standard errors of estimates of level.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1983 and 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for columns—		
		Cost of purchased fuels and electric energy (million dollars)	Electric energy			Cost of purchased fuels (million dollars)	Cost of purchased fuels and electric energy (million dollars)	Electric energy			Cost of purchased fuels (million dollars)			
			Purchased		Generated less sold (million kWh)			Purchased		Generated less sold (million kWh)				
			Quantity (million kWh)	Cost (million dollars)				Quantity (million kWh)	Cost (million dollars)					
		A	B	C	D	E	F	G	H	I	J	C	E	
	All industries	58 634.1	622 648.4	28 613.6	61 142.6	29 993.0	56 334.3	615 303.3	27 417.3	54 381.4	28 917.0	1	1	
20	Food and kindred products	5 219.1	43 899.9	2 339.5	2 659.9	2 879.6	5 029.0	45 946.4	2 201.9	2 606.0	2 827.2	1	1	
21	Tobacco products	125.3	1 525.0	67.6	(S)	57.8	114.5	1 459.4	61.3	(D)	53.2	1	1	
22	Textile mill products	1 909.3	26 402.8	1 143.7	383.1	765.6	1 714.6	23 886.8	1 013.2	353.3	701.4	1	1	
23	Apparel and other textile products	558.6	6 250.3	415.6	(S)	143.0	512.7	6 340.1	378.6	(S)	134.1	2	4	
24	Lumber and wood products	1 173.7	15 091.1	684.8	(S)	488.9	1 090.9	14 617.2	624.8	234.1	466.1	3	3	
25	Furniture and fixtures	372.5	4 267.6	241.9	(S)	130.5	344.1	3 899.6	218.1	(S)	126.0	2	4	
26	Paper and allied products	5 720.3	51 814.6	2 118.9	32 158.0	3 601.3	5 525.9	50 540.1	1 967.3	27 167.5	3 558.6	1	1	
27	Printing and publishing	922.0	10 669.6	655.5	(S)	266.5	877.0	10 638.1	624.7	(S)	252.3	2	2	
28	Chemicals and allied products	10 680.3	119 122.7	5 026.1	11 074.4	5 635.6	10 616.5	116 770.6	4 996.9	14 119.1	5 619.7	1	1	
29	Petroleum and coal products	5 798.5	33 444.1	1 572.5	4 696.3	4 226.0	5 518.4	34 185.4	1 583.2	(S)	3 935.3	1	1	
30	Rubber and miscellaneous plastics products	1 817.5	32 040.0	1 263.8	68.4	553.7	1 695.1	30 796.8	1 168.9	180.0	526.3	2	2	
31	Leather and leather products	136.5	1 199.4	73.9	(S)	62.6	129.3	1 210.9	71.7	5.8	57.6	4	3	
32	Stone, clay, and glass products	4 122.4	28 832.3	1 379.5	371.1	2 742.8	3 861.9	27 973.6	1 307.5	158.9	2 554.4	1	1	
33	Primary metal industries	9 425.7	120 460.7	4 647.3	6 300.9	4 778.4	9 096.1	123 216.1	4 567.9	7 847.0	4 528.2	1	1	
34	Fabricated metal products	2 522.7	25 505.6	1 456.3	57.0	1 066.3	2 463.5	25 531.6	1 405.6	(S)	1 057.9	1	1	
35	Machinery, except electrical	2 423.0	29 376.2	1 643.4	93.8	770.9	2 472.3	30 563.5	1 652.0	66.4	820.3	1	1	
36	Electric and electronic equipment	2 162.0	32 041.1	1 570.8	65.5	591.2	2 068.6	28 879.7	1 494.9	78.7	573.7	1	1	
37	Transportation equipment	2 572.9	30 462.8	1 675.0	(S)	897.8	2 314.5	28 846.0	1 504.9	(S)	809.5	1	2	
38	Instruments and related products	616.5	6 615.4	404.1	(D)	212.4	561.6	6 348.5	360.3	(D)	201.3	1	1	
39	Miscellaneous manufacturing industries	355.3	3 627.2	233.4	(S)	121.9	327.7	3 652.5	213.7	22.0	114.0	2	2	

See footnotes at end of table

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983				1982				Standard error of estimate (percent) for columns—			
		Cost of purchased fuels and electric energy (million dollars)	Electric energy			Cost of purchased fuels and electric energy (million dollars)	Electric energy						
			Purchased	Generated less sold	Cost of purchased fuels and electric energy (million dollars)		Purchased	Generated less sold	Cost of purchased fuels and electric energy (million dollars)				
										Quantity (million kWh)	Cost (million dollars)	Quantity (million kWh)	Cost (million dollars)
A	B	C	D	E	F	G	H	I	J	C	E		
20	Food and kindred products	5 219.1	43 899.9	2 339.5	2 659.9	2 879.6	5 029.0	45 946.4	2 201.9	2 606.0	2 827.2	1	1
201	Meat products	760.0	7 891.4	423.7	142.3	336.2	713.6	8 364.9	391.7	99.4	321.9	3	7
2011	Meat packing plants	346.0	3 284.8	169.2	128.6	176.8	321.8	3 530.0	161.9	98.0	159.8	7	2
2013	Sausages and other prepared meats	143.1	1 662.2	96.9	13.7	46.2	151.1	1 686.3	90.5	4.9	60.6	4	53
2016	Poultry dressing plants	232.5	2 565.0	137.9	-	94.6	217.1	2 899.9	126.7	(S)	90.5	1	1
2017	Poultry and egg processing	38.3	379.4	19.7	-	18.6	23.6	248.7	12.5	(S)	11.0	18	36
202	Dairy products	595.5	5 483.3	289.0	(S)	306.5	574.5	5 445.5	275.6	(S)	298.9	2	2
2021	Creamery butter	18.3	110.9	5.0	-	13.3	17.4	107.1	4.8	-	12.6	2	2
2022	Cheese, natural and processed	143.7	1 090.2	50.7	-	93.0	138.5	1 033.6	47.0	-	91.5	5	3
2023	Condensed and evaporated milk	114.4	622.4	33.5	(S)	81.0	101.3	552.5	26.7	(S)	74.6	3	4
2024	Ice cream and frozen desserts	62.9	888.7	49.5	(S)	13.4	62.3	867.5	49.1	-	13.2	2	13
2026	Fluid milk	256.2	2 771.1	150.3	(S)	105.9	255.0	2 894.8	148.0	(S)	107.0	4	3
203	Preserved fruits and vegetables	737.7	6 257.3	312.0	(S)	425.8	703.8	6 468.1	292.3	(S)	411.5	1	2
2032	Canned specialties	86.7	449.3	25.3	4.2	61.4	82.3	448.5	23.3	17.2	59.1	1	1
2033	Canned fruits and vegetables	225.2	1 235.1	74.2	(S)	151.1	229.4	1 307.5	71.7	(S)	157.7	2	3
2034	Dehydrated fruits, vegetables, and soups	74.7	407.1	20.1	-	54.6	69.2	461.0	19.8	-	49.3	4	12
2035	Pickles, sauces, and salad dressings	46.2	514.6	22.8	-	23.4	42.2	638.7	20.8	-	21.4	2	3
2037	Frozen fruits and vegetables	201.2	2 382.2	98.6	(S)	102.6	187.5	2 383.6	93.0	(S)	94.5	2	2
2038	Frozen specialties	103.7	1 269.0	71.0	-	32.7	93.2	1 228.8	63.7	-	29.5	3	4
204	Grain mill products	803.5	7 249.5	384.5	851.1	419.0	714.7	7 447.4	341.5	639.3	373.2	2	1
2041	Flour and other grain mill products	96.2	1 635.7	75.8	-	20.4	87.9	1 536.1	69.0	-	18.8	2	2
2043	Cereal breakfast foods	70.3	678.1	33.3	35.5	37.0	62.3	641.5	30.3	22.3	31.9	1	1
2044	Rice milling	32.6	340.3	19.9	(S)	12.7	36.0	364.9	20.1	-	15.9	1	1
2045	Blended and prepared flour	11.9	157.9	7.7	1.1	4.2	10.7	144.7	6.8	5.9	3.9	4	5
2046	Wet corn milling	329.2	2 422.2	107.1	777.7	222.4	304.5	2 539.7	98.5	613.1	208.0	1	1
2047	Dog, cat, and other pet food	77.5	729.9	40.2	-	37.3	73.9	731.7	36.5	-	37.4	5	2
2048	Prepared feeds, n.e.c.	185.5	1 285.4	100.5	(S)	85.0	139.5	1 488.8	82.4	(S)	57.1	6	4
205	Bakery products	330.9	2 580.8	147.1	(S)	183.8	316.8	2 538.4	141.3	(S)	175.5	2	2
2051	Bread, cake, and related products	251.6	1 920.9	111.2	(S)	140.3	242.0	1 943.8	109.3	(S)	132.7	2	2
2052	Cookies and crackers	79.3	659.9	35.8	(S)	43.5	74.9	594.6	32.0	-	42.9	6	3
206	Sugar and confectionery products	435.1	2 150.8	117.8	1 107.7	317.3	474.0	2 061.0	108.9	1 251.2	365.1	1	1
2061	Raw cane sugar	33.1	109.8	8.2	414.9	24.9	35.5	120.7	8.0	454.3	27.5	4	4
2062	Cane sugar refining	112.9	116.2	7.1	301.6	105.8	117.1	112.3	7.4	335.4	109.6	1	1
2063	Sweet sugar	138.7	330.9	12.3	392.5	126.4	182.7	356.7	12.1	450.5	170.5	1	2
2065	Confectionery products	103.8	1 092.4	61.9	(S)	41.8	97.1	1 022.4	56.6	(S)	45.5	2	2
2066	Chocolate and cocoa products	33.9	357.6	19.9	-	13.9	31.7	335.4	18.2	-	13.3	3	3
2067	Chewing gum	12.8	143.8	8.4	-	4.4	10.0	113.5	6.6	1.0	3.4	3	3
207	Fats and oils	523.5	3 348.8	163.9	89.9	359.6	526.7	4 612.7	172.7	49.9	354.0	1	1
2074	Cottonseed oil mills	42.8	443.1	25.6	-	17.2	52.7	646.8	32.7	(S)	20.3	2	2
2075	Soybean oil mills	218.6	1 514.3	65.4	66.6	153.1	211.2	2 337.8	67.1	28.1	144.1	1	1
2076	Vegetable oil mills, n.e.c.	14.4	91.5	5.2	-	9.2	16.4	127.5	6.1	(S)	10.3	2	8
2077	Animal and marine fats and oils	141.4	679.1	36.7	-	104.7	138.6	852.5	36.0	(S)	102.6	4	4
2079	Shortening and cooking oils	106.3	620.7	30.9	23.3	75.4	107.9	648.1	30.9	27.9	77.0	1	1
208	Beverages	622.6	5 499.6	290.7	537.4	331.9	606.2	5 430.6	272.5	557.1	333.7	1	2
2082	Malt beverages	272.7	2 287.1	113.6	503.9	159.1	267.1	2 286.4	107.7	518.6	159.4	1	1
2083	Malt	49.5	660.9	24.4	-	25.1	53.3	685.4	23.9	-	29.3	4	11
2084	Wines, brandy, and brandy spirits	34.9	344.1	19.1	-	15.7	34.1	332.5	19.9	-	14.3	1	8
2085	Distilled liquor, except brandy	51.0	315.3	15.1	(D)	35.9	53.8	316.2	14.9	(D)	38.1	3	2
2086	Bottled and canned soft drinks	181.7	1 684.2	104.5	(D)	77.2	165.4	1 599.2	83.5	(D)	71.9	2	3
2087	Flavoring extracts and syrups, n.e.c.	32.9	208.0	13.9	(D)	19.0	32.5	210.9	12.5	(D)	19.9	3	5
209	Miscellaneous foods and kindred products	410.3	3 438.4	210.8	11.7	199.5	398.7	3 578.3	205.3	25.2	193.4	3	2
2091	Canned and cured seafoods	24.6	199.0	12.2	1.0	12.3	26.0	199.2	11.9	1.3	14.0	3	6
2092	Fresh or frozen packaged fish	62.5	561.6	38.6	5	23.9	67.4	643.3	41.8	6.9	25.6	4	2
2095	Roasted coffee	66.6	498.9	29.9	(S)	38.7	67.4	495.1	29.1	-	38.3	1	2
2097	Manufactured ice	29.0	441.4	27.7	-	1.4	31.2	527.8	30.0	-	1.2	16	14
2098	Macaroni and spaghetti	18.8	214.4	11.0	4.2	7.9	19.7	195.9	10.9	3.6	8.8	16	15
2099	Food preparations, n.e.c.	208.8	1 523.0	91.4	12.5	117.4	187.0	1 517.0	81.4	13.4	105.6	3	2
21	Tobacco products	125.3	1 525.0	67.6	(S)	57.8	114.5	1 459.4	61.3	(D)	53.2	1	1
211	Cigarettes	78.9	1 004.9	43.9	199.3	35.0	72.2	963.8	40.0	120.7	32.2	1	1
2111	Cigarettes	78.9	1 004.9	43.9	199.3	35.0	72.2	963.8	40.0	120.7	32.2	1	1
212	Cigars	3.6	39.2	2.5	-	1.1	3.8	47.3	2.6	-	1.2	2	12
2121	Cigars	3.6	39.2	2.5	-	1.1	3.8	47.3	2.6	-	1.2	2	12
213	Chewing and smoking tobacco	6.7	58.5	3.0	-	3.7	6.5	54.7	2.8	-	3.6	2	2
2131	Chewing and smoking tobacco	6.7	58.5	3.0	-	3.7	6.5	54.7	2.8	-	3.6	2	2
214	Tobacco stemming and redrying	36.1	422.4	18.1	(S)	18.0	32.0	393.7	15.9	(D)	16.1	1	3
2141	Tobacco stemming and redrying	36.1	422.4	18.1	(S)	18.0	32.0	393.7	15.9	(D)	16.1	1	3
22	Textile mill products	1 909.3	26 402.8	1 143.7	383.1	765.6	1 714.6	23 886.8	1 013.2	353.3	701.4	1	1
221	Weaving mills, cotton	202.5	3 665.2	144.9	130.7	57.5	188.1	3 374.9	133.5	140.5	54.6	1	1
2211	Weaving mills, cotton	202.5	3 665.2	144.9	130.7	57.5	188.1	3 374.9	133.5	140.5	54.6	1	1
222	Weaving mills, synthetics	380.3	7 051.4	288.6	45.8	91.7	329.2	6 445.9	252.3	41.9	77.0	1	6
2221	Weaving mills, manmade fiber and silk	380.3	7 051.4	288.6	45.8	91.7	329.2	6 445.9	252.3	41.9	77.0	1	6
223	Weaving and finishing mills, wool	30.2	296.6	16.1	1.0	14.1	30.1	283.3	14.8	1.2	15.4	3	1
2231	Weaving and finishing mills, wool	30.2	296.6	16.1	1.0	14.1	30.1	283.3	14.8	1.2	15.4	3	1
224	Narrow fabric mills	24.1	224.8	15.2	(S)	9.0	24.1	316.2	15.6	9	8.4	9	7
2241	Narrow fabric mills	24.1	224.8	15.2	(S)	9.0	24.1	316.2	15.6	9	8.4	9	7

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for columns—	
		Cost of purchased fuels and electric energy (million dollars)	Electric energy		Generated less sold (million kWh)	Cost of purchased fuels (million dollars)	Cost of purchased electric energy (million dollars)	Electric energy		Cost of purchased fuels (million dollars)			
			Purchased					Purchased					
											Quantity (million kWh)		
		A	B	C	D	E	F	G	H	I	J	C	E
22	Textile mill products—Con												
225	Knitting mills	316.9	3 356.2	157.2	(S)	159.7	288.0	2 912.2	139.7	(S)	148.3	2	1
2251	Women's hosiery, except socks	32.5	483.7	23.1	-	9.5	29.4	463.0	19.8	-	9.6	2	4
2252	Hosiery, n.e.c.	31.3	338.5	18.1	(S)	13.1	28.5	326.5	16.0	(S)	12.5	4	4
2253	Knit outerwear mills	63.3	582.8	32.0	(S)	31.2	53.9	502.5	26.4	-	27.5	3	2
2254	Knit underwear mills	19.5	214.7	10.2	-	9.3	19.4	211.4	9.5	-	9.9	6	5
2257	Circular knit fabric mills	106.7	1 183.9	45.9	-	60.8	98.2	844.5	40.3	-	57.8	2	2
2258	Warp knit fabric mills	61.4	535.0	26.2	-	35.2	55.7	540.2	25.7	-	30.0	3	2
2259	Knitting mills, n.e.c.	2.3	17.5	1.7	-	.6	3.0	24.1	1.9	-	1.0	3	3
226	Textile finishing, except wool	304.0	2 015.4	93.4	151.7	210.7	276.3	1 743.8	80.2	147.2	196.0	2	2
2261	Finishing plants, cotton	59.5	303.6	15.0	11.3	44.5	53.7	277.4	13.3	11.9	40.4	1	1
2262	Finishing plants, manmade	189.4	1 139.1	53.2	140.8	136.3	175.3	1 053.7	47.1	135.3	128.2	2	2
2269	Finishing plants, n.e.c.	55.1	572.7	25.3	(S)	29.9	47.3	412.7	19.8	-	27.5	4	3
227	Floor covering mills	144.1	981.0	47.8	(S)	96.3	127.7	986.1	43.7	2.4	84.0	5	1
2271	Woven carpets and rugs	5.6	48.6	2.3	-	3.4	5.0	47.7	2.2	-	2.8	1	1
2272	Tufted carpets and rugs	136.8	918.3	44.6	(S)	92.2	119.1	906.9	39.7	(S)	79.4	5	1
2279	Carpets and rugs, n.e.c.	1.6	14.1	.9	-	.8	3.6	31.5	1.8	2.5	1.8	23	4
228	Yarn and thread mills	341.4	6 800.2	284.0	(S)	57.4	295.7	5 977.4	243.2	(S)	52.5	1	2
2281	Yarn mills, except wool	227.6	4 585.1	193.0	15.9	34.6	201.9	4 199.4	170.2	19.4	31.7	2	2
2282	Throwing and winding mills	80.2	1 729.5	66.7	(S)	13.5	63.7	1 296.6	52.3	(S)	11.4	1	1
2283	Wool yarn mills	6.1	74.4	4.8	-	1.3	5.7	65.2	4.0	-	1.7	6	27
2284	Thread mills	27.5	411.2	19.4	-	8.0	24.5	416.2	16.8	-	7.7	4	3
229	Miscellaneous textile goods	166.0	2 012.0	96.6	(S)	69.4	155.4	1 847.1	90.2	(S)	65.2	2	1
2291	Felt goods, except woven felts and hats	8.0	70.8	4.7	(D)	3.3	7.6	79.8	4.2	(D)	3.5	3	2
2292	Lace goods	3.3	19.6	1.4	(S)	2.0	3.4	12.9	1.0	(S)	2.4	1	1
2293	Paddings and upholstery filling	9.6	79.0	4.5	-	5.1	9.5	87.8	4.9	-	4.6	11	3
2294	Processed textile waste	6.4	75.1	4.1	-	2.3	6.5	76.6	3.8	-	2.7	1	1
2295	Coated fabrics, not rubberized	33.2	297.4	14.6	-	18.6	30.5	235.2	14.4	-	16.0	7	2
2296	Tire cord and fabric	29.4	532.2	23.3	-	6.1	28.8	517.4	22.6	-	6.2	1	1
2297	Nonwoven fabrics	51.8	608.4	28.3	(S)	23.4	46.3	530.7	24.5	-	21.8	1	3
2298	Cordage and twine	10.0	163.5	7.8	-	2.1	9.4	149.7	7.3	-	2.1	2	9
2299	Textile goods, n.e.c.	14.2	166.1	7.8	-	6.4	13.4	157.0	7.4	-	6.0	1	3
23	Apparel and other textile products	558.6	6 250.3	415.6	(S)	143.0	512.7	6 340.1	378.6	(S)	134.1	2	4
231	Men's and boys' suits and coats	40.2	432.0	29.3	-	10.9	37.5	397.4	26.8	-	10.6	2	3
2311	Men's and boys' suits and coats	40.2	432.0	29.3	-	10.9	37.5	397.4	26.8	-	10.6	2	3
232	Men's and boys' furnishings	132.4	1 412.9	102.4	(S)	30.1	108.5	1 499.0	83.3	(S)	25.2	2	5
2321	Men's and boys' shirts and nightwear	44.6	487.0	37.6	(S)	6.9	27.8	395.1	21.8	-	6.0	2	3
2322	Men's and boys' underwear	4.8	73.0	4.0	-	.8	5.5	94.4	4.6	-	.9	1	1
2323	Men's and boys' neckwear	2.5	33.4	2.0	-	.5	2.5	26.6	2.0	-	.5	7	11
2327	Men's and boys' separate trousers	22.1	291.5	16.5	(S)	5.6	21.4	291.7	15.5	(S)	5.9	2	5
2328	Men's and boys' work clothing	36.6	411.9	27.4	(S)	9.2	36.1	494.5	28.2	(S)	7.9	2	1
2329	Men's and boys' clothing, n.e.c.	21.8	233.9	14.7	-	7.1	15.2	195.7	11.2	(S)	4.0	10	17
233	Women's and misses' outerwear	181.4	2 026.6	145.9	(S)	35.5	179.7	2 068.4	144.7	(S)	35.0	3	10
2331	Women's and misses' blouses	43.8	504.2	34.2	(S)	9.6	36.0	538.2	28.6	(S)	7.4	9	15
2335	Women's and misses' dresses	74.3	833.0	67.4	(S)	13.6	73.7	762.1	66.3	(S)	7.4	3	6
2337	Women's and misses' suits and coats	30.1	286.0	20.9	-	9.2	32.1	314.6	21.9	(S)	10.2	9	32
2339	Women's and misses' outerwear, n.e.c.	33.3	402.5	23.4	(S)	9.9	37.9	453.5	27.9	(S)	10.0	8	4
234	Women's and children's undergarments	31.1	389.8	23.2	-	7.9	28.2	357.6	20.0	-	6.2	5	8
2341	Women's and children's underwear	26.5	339.3	19.3	-	7.1	23.4	307.7	16.4	-	7.1	6	4
2342	Brassieres and allied garments	4.6	50.5	3.9	-	.8	4.8	49.9	3.7	-	1.1	6	70
235	Hats, caps, and millinery	8.7	89.9	5.4	-	3.2	7.9	75.7	4.7	-	3.2	3	8
2351	Millinery	(S)	(S)	(S)	-	(S)	(S)	(S)	(S)	-	(S)	13	1
2352	Hats and caps, except millinery	7.8	79.5	4.9	-	3.0	7.1	68.9	4.2	-	2.9	3	9
236	Children's outerwear	25.5	364.2	(S)	-	7.6	21.9	378.1	16.4	(S)	5.5	3	6
2361	Children's dresses and blouses	12.1	135.6	(S)	-	3.7	10.6	138.6	7.9	(S)	2.7	5	8
2363	Children's coats and suits	(S)	(S)	(S)	-	(S)	(S)	(S)	(S)	-	(S)	5	33
2369	Children's outerwear, n.e.c.	10.4	117.1	7.2	-	3.2	9.4	125.7	7.1	-	2.4	3	8
237	Fur goods	1.7	21.3	1.5	-	.1	1.7	19.4	1.6	-	.1	8	1
2371	Fur goods	1.7	21.3	1.5	-	.1	1.7	19.4	1.6	-	.1	8	1
238	Miscellaneous apparel and accessories	26.9	276.8	19.4	-	7.5	20.0	235.1	14.2	-	5.8	3	12
2381	Fabric dress and work gloves	3.8	31.8	2.3	-	1.6	3.1	27.4	1.9	-	1.2	1	1
2384	Robes and dressing gowns	9.0	110.9	7.9	-	1.1	3.0	38.4	2.3	-	.7	2	9
2385	Waterproof outer garments	5.3	48.6	3.0	-	2.3	4.3	64.3	2.8	-	1.4	9	37
2386	Leather and sheep lined clothing	.9	6.5	.6	-	.3	1.1	9.5	.8	-	.3	23	1
2387	Apparel belts	4.0	38.4	3.2	-	.9	4.1	47.2	3.4	-	.7	8	21
2389	Apparel and accessories, n.e.c.	3.8	40.5	2.5	-	1.3	4.5	48.3	3.0	-	1.5	3	2
239	Miscellaneous fabricated textile products	110.7	1 236.8	70.6	(S)	40.0	107.3	1 309.3	66.8	(S)	40.4	9	10
2391	Curtains and draperies	13.1	146.7	10.8	-	2.4	8.4	94.9	6.5	-	1.9	34	5
2392	House furnishings, n.e.c.	30.8	437.9	17.6	-	13.1	40.1	567.2	22.3	-	17.8	23	5
2393	Textile bags	4.2	47.6	2.4	-	1.7	3.8	45.0	2.2	-	1.6	1	3
2394	Canvas and related products	7.5	63.1	6.5	-	1.0	5.6	63.0	4.0	-	1.6	36	87
2395	Pressing and stitching	8.9	84.5	5.6	(S)	3.3	10.3	109.3	6.5	-	3.8	10	14
2396	Automotive and apparel trimmings	22.4	184.0	11.6	(S)	10.8	17.5	170.2	10.9	-	6.7	5	33
2397	Schiffli machine embroideries	3.9	43.6	2.9	-	1.0	4.4	57.4	3.0	-	1.5	5	53
2399	Fabricated textile products, n.e.c.	19.9	229.4	13.2	(S)	6.6	17.1	202.3	11.6	(S)	5.5	5	6

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for columns—		
		Cost of purchased fuels and electric energy (million dollars)	Electric energy			Cost of purchased fuels and electric energy (million dollars)	Electric energy							
			Purchased	Generated less sold	Cost of purchased fuels and electric energy (million dollars)		Purchased	Generated less sold	Cost of purchased fuels and electric energy (million dollars)					
										Quantity (million kWh)	Cost (million dollars)			
A	B	C	D	E	F	G	H	I	J	K	L			
24	Lumber and wood products	1 173.7	15 091.1	584.8	(S)	488.9	1 090.9	14 617.2	624.8	234.1	466.1	3	3	
241	Logging camps and logging contractors	114.7	317.0	15.4	(D)	99.3	123.1	359.3	13.6	41.0	109.5	7	7	
2411	Logging camps and logging contractors	114.7	317.0	15.4	(D)	99.3	123.1	359.3	13.6	41.0	109.5	7	7	
242	Sawmills and planing mills	405.5	512.7	264.5	(D)	141.0	363.1	6 105.9	241.5	91.1	121.6	2	8	
2421	Sawmills and planing mills, general	373.4	449.4	239.1	(D)	134.3	331.0	5 641.3	217.2	90.3	113.9	3	8	
2426	Hardwood dimension and flooring	29.8	437.0	24.3	(D)	5.5	29.6	425.4	22.8	8	6.8	2	5	
2429	Special product sawmills, n.e.c.	2.3	26.3	1.1	-	1.2	2.5	39.2	1.5	-	1.0	33	20	
243	Millwork, plywood, and structural members	293.4	4 095.6	197.4	59.7	95.9	267.6	4 107.2	171.8	51.5	95.8	2	2	
2431	Millwork	62.1	751.9	47.5	(S)	14.6	54.3	699.1	38.9	(S)	15.5	2	6	
2434	Wood sash and cabinets	34.7	390.6	24.3	(S)	10.4	30.5	341.3	20.2	-	10.3	7	3	
2435	Hardwood veneer and plywood	33.0	428.8	21.4	-	11.6	31.5	376.9	18.7	-	12.8	2	9	
2436	Softwood veneer and plywood	150.9	2 378.0	96.2	(D)	54.7	140.4	2 549.7	87.1	51.9	53.3	2	2	
2439	Structural wood members, n.e.c.	12.6	146.3	8.0	(D)	4.6	10.9	140.2	7.0	2	4.0	3	9	
244	Wood containers	44.6	575.5	29.5	(S)	15.1	39.9	343.8	25.4	(S)	14.5	146	9	
2441	Nailed wood boxes and skids	8.6	77.7	4.9	-	3.7	6.0	68.3	3.6	(S)	2.4	15	16	
2448	Wood pallets and skids	29.4	420.0	19.7	(S)	9.7	27.6	197.1	17.4	-	10.2	976	11	
2449	Wood containers, n.e.c.	6.7	77.8	4.9	(S)	1.8	6.3	78.4	4.3	(S)	1.9	10	29	
245	Wood buildings and mobile homes	40.0	411.0	25.9	(S)	14.1	34.3	365.0	21.0	-	13.3	6	7	
2451	Mobile homes	27.6	287.8	18.3	(S)	9.5	22.0	239.2	13.6	-	8.4	11	9	
2452	Prefabricated wood buildings	12.1	123.3	7.6	(S)	4.5	12.3	125.8	7.3	-	5.0	3	12	
249	Miscellaneous wood products	293.5	3 707.0	169.9	(D)	123.6	262.9	3 336.0	151.7	51.0	111.3	2	1	
2491	Wood preserving	39.1	269.2	11.8	-	27.3	38.6	284.5	11.8	(S)	2.8	2	3	
2492	Particleboard	58.6	917.4	38.5	-	20.1	48.8	824.7	33.7	-	15.1	2	3	
2499	Wood products, n.e.c.	195.7	2 520.5	119.6	(D)	76.1	175.6	2 226.8	106.2	52.2	69.3	2	1	
25	Furniture and fixtures	372.5	4 267.6	241.9	(S)	130.5	344.1	3 899.6	218.1	(S)	126.0	2	4	
251	Household furniture	194.4	2 491.1	138.0	(S)	56.4	189.8	2 371.3	128.6	(S)	61.2	2	8	
2511	Wood household furniture	103.8	1 467.7	80.3	9.6	23.6	101.8	1 354.2	73.4	14.1	28.3	2	13	
2512	Upholstered household furniture	34.0	438.9	23.8	(S)	10.2	36.9	452.4	23.3	(S)	13.6	2	32	
2514	Metal household furniture	24.6	226.2	13.5	(S)	11.0	22.0	212.0	12.5	(S)	9.4	2	4	
2515	Mattresses and bedspreads	17.6	133.8	9.8	-	7.7	15.4	148.7	9.7	(S)	5.7	9	12	
2517	Wood TV and radio cabinets	4.7	65.5	3.4	-	1.3	5.5	66.6	3.4	(S)	2.1	1	2	
2519	Household furniture, n.e.c.	9.8	159.1	7.2	(S)	2.7	8.3	135.4	6.3	(S)	2.0	5	16	
252	Office furniture	61.9	599.0	35.6	-	26.3	54.1	569.7	32.0	1	22.1	3	2	
2521	Wood office furniture	15.4	166.0	10.2	-	5.3	13.8	153.5	8.6	-	5.2	7	4	
2522	Metal office furniture	46.5	433.0	25.4	-	21.1	40.2	416.2	23.4	1	16.9	1	2	
253	Public building and related furniture	18.3	171.9	10.5	-	7.7	17.3	179.1	10.4	(S)	6.9	5	3	
2531	Public building and related furniture	18.3	171.9	10.6	-	7.7	17.3	179.1	10.4	(S)	6.9	5	3	
254	Partitions and fixtures	68.8	695.6	39.6	(S)	29.2	59.8	549.8	33.4	-	26.4	8	5	
2541	Wood partitions and fixtures	26.7	259.2	15.6	-	11.1	23.9	226.0	14.0	-	9.9	4	9	
2542	Metal partitions and fixtures	42.1	436.3	24.0	(S)	18.1	35.9	323.8	19.4	-	16.5	13	5	
259	Miscellaneous furniture and fixtures	29.0	310.0	18.1	-	10.9	23.2	229.7	13.7	-	9.5	5	21	
2591	Drapery hardware and blinds and shades	13.5	139.8	8.2	-	5.3	10.5	102.0	6.0	-	4.5	5	4	
2599	Furniture and fixtures, n.e.c.	15.5	170.2	9.9	-	5.6	12.7	127.7	7.7	-	5.0	8	40	
26	Paper and allied products	5 720.3	51 814.6	2 118.9	32 158.0	3 601.3	5 525.9	50 540.1	1 967.3	27 167.5	3 558.6	1	1	
261	Pulp mills	392.4	3 100.5	99.4	3 815.1	293.1	375.9	2 932.8	90.4	2 310.8	285.5	1	1	
2611	Pulp mills	392.4	3 100.5	99.4	3 815.1	293.1	375.9	2 932.8	90.4	2 310.8	285.5	1	1	
262	Paper mills, except building paper	2 784.9	26 658.8	1 058.4	17 698.0	1 726.5	2 666.5	25 781.6	975.3	15 237.1	1 691.2	1	1	
2621	Paper mills, except building paper	2 784.9	26 658.8	1 058.4	17 698.0	1 726.5	2 666.5	25 781.6	975.3	15 237.1	1 691.2	1	1	
263	Paperboard mills	1 585.8	11 733.4	418.5	10 529.5	1 167.2	1 597.6	12 395.4	408.0	9 553.1	1 189.6	1	1	
2631	Paperboard mills	1 585.8	11 733.4	418.5	10 529.5	1 167.2	1 597.6	12 395.4	408.0	9 553.1	1 189.6	1	1	
264	Miscellaneous converted paper products	474.6	6 053.0	305.4	41.1	169.3	445.5	5 488.9	275.9	36.6	169.6	3	5	
2641	Paper coating and glazing	120.5	1 144.7	59.0	(D)	61.5	117.5	1 133.6	59.1	16.3	58.5	1	3	
2642	Envelopes	34.1	468.4	28.3	(S)	5.8	26.4	330.7	21.5	(S)	4.9	16	5	
2643	Bags, except textile bags	101.6	1 729.0	83.7	9.2	17.9	93.7	1 540.6	75.5	6.0	18.3	3	15	
2645	Die-cut paper and board	16.0	166.9	11.0	-	5.0	17.8	187.2	10.4	(S)	7.3	15	58	
2646	Pressed and molded pulp goods	31.6	406.6	17.8	(D)	13.8	38.4	407.4	19.5	2.4	18.9	10	25	
2647	Sanitary paper products	113.5	1 542.3	71.8	12.4	41.7	95.2	1 329.5	57.3	11.8	37.8	8	11	
2648	Stationery products	9.2	114.1	6.6	-	2.6	9.1	107.8	6.4	-	2.7	2	6	
2649	Converted paper products, n.e.c.	48.2	481.1	27.2	(D)	21.1	47.4	452.1	26.2	(S)	21.1	3	3	
265	Paperboard containers and boxes	404.3	3 626.5	207.5	74.3	196.8	386.9	3 359.7	192.0	20.9	174.9	2	2	
2651	Folding paperboard boxes	73.8	714.4	42.3	(S)	31.5	66.5	689.0	39.9	(S)	26.6	3	3	
2652	Set-up paperboard boxes	8.3	82.6	5.5	-	2.8	8.6	78.5	5.2	(S)	3.3	7	30	
2653	Corrugated and solid fiber boxes	251.8	1 968.0	113.7	(S)	138.1	225.2	1 787.7	103.2	(S)	122.0	3	2	
2654	Sanitary food containers	45.2	579.7	31.2	19.1	14.0	42.4	574.0	30.1	4.6	12.7	1	4	
2655	Fiber cans, drums, and similar products	25.1	281.8	14.8	19.0	10.3	23.8	230.5	13.5	15.4	10.3	3	2	
266	Building paper and board mills	78.3	642.4	29.8	-	48.5	73.5	581.6	25.8	9.0	47.7	3	11	
2661	Building paper and board mills	78.3	642.4	29.8	-	48.5	73.5	581.6	25.8	9.0	47.7	3	11	

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for columns—		
		Cost of purchased fuels and electric energy (million dollars)	Electric energy			Cost of purchased fuels and electric energy (million dollars)	Electric energy							
			Purchased	Generated less sold	Cost of purchased fuels and electric energy (million dollars)		Purchased	Generated less sold	Cost of purchased fuels and electric energy (million dollars)					
										Quantity (million kWh)	Cost (million dollars)			
												Quantity (million kWh)	Cost (million dollars)	Quantity (million kWh)
A	B	C	D	E	F	G	H	I	J	C	E			
27	Printing and publishing	922.0	10 609.6	655.5	(S)	266.5	877.0	10 638.1	624.7	(S)	252.3	2	2	
271	Newspapers	198.4	2 435.7	153.4	(S)	45.0	198.0	2 598.6	150.9	7.2	47.1	5	5	
2711	Newspapers	198.4	2 435.7	153.4	(S)	45.0	198.0	2 598.6	150.9	7.2	47.1	5	4	
272	Periodicals	59.2	565.6	41.2	(S)	18.0	41.4	467.4	32.0	(S)	9.4	4	6	
2721	Periodicals	59.2	565.6	41.2	(S)	18.0	41.4	467.4	32.0	(S)	9.4	4	6	
273	Books	66.7	852.5	44.6	(S)	22.2	64.2	725.3	41.8	(S)	22.4	2	9	
2731	Book publishing	24.7	238.2	15.9	(S)	8.9	25.6	236.9	15.0	(S)	10.6	4	22	
2732	Book printing	42.0	614.3	28.7	(S)	13.3	38.6	488.4	26.8	-	11.7	2	2	
274	Miscellaneous publishing	19.8	180.1	11.3	(S)	8.5	18.7	192.8	12.2	(S)	6.5	4	15	
2741	Miscellaneous publishing	19.8	180.1	11.3	(S)	8.5	18.7	192.8	12.2	(S)	6.5	4	15	
275	Commercial printing	442.3	5 062.7	303.1	(S)	139.2	421.5	4 949.8	286.8	2.6	134.7	2	2	
2751	Commercial printing, letterpress	69.4	924.6	47.7	(S)	21.7	75.7	832.5	49.3	(S)	26.4	7	11	
2752	Commercial printing, lithographic	289.9	3 289.5	208.2	(S)	80.8	270.1	3 307.3	195.4	1.8	74.7	2	2	
2753	Engraving and plate printing	12.3	85.0	7.8	-	4.6	12.0	102.8	7.6	8	4.4	4	5	
2754	Commercial printing, gravure	71.6	763.7	39.5	(S)	32.1	63.8	707.2	34.5	-	29.3	1	2	
276	Manifold business forms	42.5	557.9	34.0	(S)	8.5	49.1	693.1	38.1	-	11.0	19	33	
2761	Manifold business forms	42.5	557.9	34.0	(S)	8.5	49.1	693.1	38.1	-	11.0	19	33	
277	Greeting card publishing	15.8	204.4	11.5	-	4.3	12.5	198.9	9.6	-	3.0	1	11	
2771	Greeting card publishing	15.8	204.4	11.5	-	4.3	12.5	198.9	9.6	-	3.0	1	11	
278	Blankbooks and bookbinding	40.3	398.7	28.7	(S)	11.6	37.3	421.3	26.8	-	10.5	4	5	
2782	Blankbooks and looseleaf binders	23.7	272.5	17.9	-	5.8	23.2	278.4	17.6	-	5.6	3	6	
2789	Bookbinding and related work	16.6	126.1	10.8	(S)	5.8	14.1	142.9	9.2	-	4.9	9	6	
279	Printing trade services	36.9	412.2	27.8	-	9.1	34.2	390.9	26.5	(S)	7.7	4	9	
2791	Typesetting	18.3	212.8	14.2	-	4.1	17.2	204.8	13.9	(S)	3.3	7	13	
2793	Photoengraving	1.9	23.6	1.5	-	4	2.0	21.3	1.6	-	4	1	1	
2794	Electrotyping and stereotyping	1.9	23.6	1.5	-	4	2.0	21.3	1.6	-	4	1	1	
2795	Lithographic platemaking services	16.7	175.8	12.1	-	4.6	15.0	164.8	11.0	-	4.0	3	14	
28	Chemicals and allied products	10 680.3	119 122.7	5 026.1	11 074.4	5 635.6	10 618.5	116 770.6	4 996.9	14 119.1	5 619.7	1	1	
281	Industrial inorganic chemicals	3 099.3	56 697.0	2 186.8	3 578.4	912.5	3 045.7	52 674.8	2 157.4	3 217.5	888.3	1	1	
2812	Alkalies and chlorine	521.3	7 652.4	332.9	1 641.7	188.4	472.4	8 772.2	312.9	1 418.1	159.5	1	1	
2813	Industrial gases	656.9	13 631.8	566.8	(S)	90.1	663.5	14 107.2	594.4	(S)	69.2	1	1	
2816	Inorganic pigments	184.5	1 555.2	89.2	(D)	115.3	184.3	1 440.5	83.4	342.8	120.9	2	3	
2819	Industrial inorganic chemicals, n.e.c.	1 736.6	33 857.6	1 217.8	1 801.6	518.8	1 725.5	28 354.9	1 186.8	1 468.3	538.7	1	1	
282	Plastics materials and synthetics	1 826.1	18 683.3	810.8	1 929.1	1 015.3	1 788.9	18 662.7	785.1	1 543.4	1 003.8	1	1	
2821	Plastics materials and resins	1 000.2	10 144.1	475.4	(D)	524.8	962.3	10 358.6	459.8	144.7	502.5	1	1	
2822	Synthetic rubber	192.4	1 421.2	59.2	(D)	133.2	209.9	1 476.0	59.7	7.6	150.2	1	1	
2823	Cellulosic manmade fibers	112.5	470.5	18.2	1 047.8	94.3	101.5	422.7	15.2	896.9	86.2	1	1	
2824	Organic fibers, noncellulosic	520.9	6 647.6	258.0	570.1	263.0	515.2	6 405.4	250.4	494.2	264.8	1	1	
283	Drugs	471.1	4 665.7	251.7	282.2	219.4	470.5	4 766.1	248.4	176.8	222.0	1	1	
2831	Biological products	43.2	418.9	28.1	(S)	15.1	34.8	402.4	24.4	-	10.4	4	3	
2833	Medicinals and botanicals	152.9	1 212.8	56.7	266.9	96.2	165.4	1 388.8	63.7	141.1	101.8	3	2	
2834	Pharmaceutical preparations	275.1	3 034.0	167.0	(D)	108.1	270.3	2 974.9	160.4	35.7	109.9	1	1	
284	Soaps, cleaners, and toilet goods	317.0	2 365.6	134.3	(D)	182.7	297.7	2 374.0	127.2	137.2	170.5	1	1	
2841	Soap and other detergents	124.4	804.9	46.9	(D)	77.9	115.8	791.2	45.5	121.4	70.4	1	2	
2842	Polishes and sanitation goods	35.1	320.2	19.7	-	15.4	34.5	346.6	19.9	16.6	14.6	3	3	
2843	Surface active agents	96.3	566.3	27.0	(S)	69.3	89.7	580.5	23.4	(S)	66.3	2	2	
2844	Toilet preparations	61.2	674.2	40.7	-	20.4	57.6	655.7	38.4	-	19.3	1	1	
285	Paints and allied products	134.0	971.5	67.9	(S)	66.1	90.8	797.9	48.9	(S)	41.9	14	17	
2851	Paints and allied products	134.0	971.5	67.9	(S)	66.1	90.8	797.9	48.9	(S)	41.9	14	17	
286	Industrial organic chemicals	3 507.3	24 941.6	1 092.0	4 658.4	2 415.3	3 457.1	25 810.7	1 106.4	8 428.6	2 350.6	1	1	
2861	Gum and wood chemicals	39.7	201.9	10.8	(D)	28.9	44.1	204.2	10.1	25.9	34.0	5	2	
2865	Cyclic crudes and intermediates	675.3	5 238.4	222.2	(D)	453.1	712.0	5 366.7	223.1	142.2	498.9	1	1	
2869	Industrial organic chemicals, n.e.c.	2 792.3	19 501.4	859.0	4 591.3	1 933.3	2 701.0	20 239.8	873.2	8 260.5	1 827.8	1	1	
287	Agricultural chemicals	946.6	7 934.0	344.9	267.3	601.7	1 063.4	8 806.6	369.2	441.8	694.3	2	2	
2873	Nitrogenous fertilizers	560.2	3 114.9	133.5	(S)	426.7	671.9	4 091.5	159.4	213.3	512.4	3	3	
2874	Phosphatic fertilizers	236.8	3 281.2	142.4	194.3	94.4	236.5	3 086.9	140.1	236.9	96.4	2	1	
2875	Fertilizers, mixing only	22.0	197.2	10.7	(S)	11.3	23.8	215.4	10.8	(S)	13.0	4	11	
2879	Agricultural chemicals, n.e.c.	127.6	1 340.6	58.3	(S)	69.3	131.3	1 412.8	58.9	(S)	72.4	1	1	
289	Miscellaneous chemical products	378.9	2 864.0	137.7	249.7	222.6	402.6	2 877.6	154.3	176.4	248.3	15	8	
2891	Adhesives and sealants	45.7	281.9	18.6	(S)	27.1	54.8	367.7	291.0	1.0	25.2	(S)	(S)	
2892	Explosives	55.2	426.9	17.9	(S)	37.3	61.8	458.4	22.6	65.2	39.2	2	2	
2893	Printing ink	18.9	232.7	11.9	-	7.0	17.8	171.9	11.1	-	6.7	3	3	
2895	Carbon black	61.8	541.2	25.5	(S)	36.3	63.0	524.5	23.0	(S)	40.0	2	3	
2899	Chemical preparations, n.e.c.	197.3	1 381.4	63.8	96.4	133.5	205.2	1 355.1	67.9	111.7	137.3	11	2	
29	Petroleum and coal products	5 798.5	33 444.1	1 572.5	4 896.3	4 226.0	5 518.4	34 185.4	1 583.2	(S)	3 935.3	1	1	
291	Petroleum refining	5 385.0	31 622.0	1 467.5	4 669.6	3 917.5	5 119.5	32 311.4	1 485.1	779.1	3 634.4	1	1	
2911	Petroleum refining	5 385.0	31 622.0	1 467.5	4 669.6	3 917.5	5 119.5	32 311.4	1 485.1	779.1	3 634.4	1	1	
295	Paving and roofing materials	347.8	1 426.6	82.1	12.1	265.6	327.6	1 526.6	78.0	9.5	249.7	2	2	
2951	Paving mixtures and blocks	224.6	803.3	50.3	(D)	174.3	214.8	975.2	48.1	3.4	166.7	3	3	
2952	Asphalt felts and coatings	123.2	623.3	31.9	(D)	91.3	112.9	551.4	29.9	6.1	83.0	3	3	
299	Miscellaneous petroleum and coal products	65.7	395.5	22.8	(S)	42.9	71.3	347.4	20.1	(S)	51.2	7	4	
2992	Lubricating oils and greases	38.0	223.2	13.4	(S)	24.6	34.6	173.3	11.4	(S)	23.3	11	6	
2999	Petroleum and coal products, n.e.c.	27.7	172.3	9.4	(S)	18.3	36.7	174.1	8.8	(S)	27.9	2	2	

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983					1982					Standard error estimate (percent) for columns—						
		Cost of purchased fuels and electric energy (million dollars)	Electric energy		Generated less sold (million kWh)	Cost of purchased fuels (million dollars)	Cost of purchased fuels and electric energy (million dollars)	Electric energy		Generated less sold (million kWh)	Cost of purchased fuels (million dollars)							
			Purchased					Purchased										
															Quantity (million kWh)	Cost (million dollars)	Quantity (million kWh)	Cost (million dollars)
A	B	C	D	E	F	G	H	I	J	C	E							
30	Rubber and miscellaneous plastics products	1 817.5	32 040.0	1 263.8	68.4	553.7	1 695.1	30 796.8	1 168.9	180.0	526.3	2	2					
301	Tires and inner tubes	282.4	3 694.4	153.5	(S)	128.9	270.9	3 591.5	148.9	(S)	122.0	1	1					
3011	Tires and inner tubes	282.4	3 694.4	153.5	(S)	128.9	270.9	3 591.5	148.9	(S)	122.0	1	1					
302	Rubber and plastics footwear	12.9	123.9	7.7	-	5.2	15.0	161.4	9.6	-	5.5	1	1					
3021	Rubber and plastics footwear	12.9	123.9	7.7	-	5.2	15.0	161.4	9.6	-	5.5	1	1					
303	Reclaimed rubber	5.1	71.7	3.9	-	1.2	4.8	76.4	3.7	-	1.1	2	3					
3031	Reclaimed rubber	5.1	71.7	3.9	-	1.2	4.8	76.4	3.7	-	1.1	2	3					
304	Rubber and plastics hose and belting	59.8	642.5	31.8	29.1	28.0	63.2	707.6	33.6	137.5	29.6	1	4					
3041	Rubber and plastics hose and belting	59.8	642.5	31.8	29.1	28.0	63.2	707.6	33.6	137.5	29.6	1	4					
306	Fabricated rubber products, n.e.c.	218.9	2 484.5	126.4	(S)	92.5	201.8	2 155.5	115.6	2.6	86.2	1	1					
3069	Fabricated rubber products, n.e.c.	218.9	2 484.5	126.4	(S)	92.5	201.8	2 155.5	115.6	2.6	86.2	1	1					
307	Miscellaneous plastics products	1 238.4	25 022.9	940.5	45.1	297.9	1 139.4	24 104.5	857.5	43.5	281.9	2	3					
3079	Miscellaneous plastics products	1 238.4	25 022.9	940.5	45.1	297.9	1 139.4	24 104.5	857.5	43.5	281.9	2	3					
31	Leather and leather products	136.5	1 199.4	73.9	(S)	62.6	129.3	1 210.9	71.7	5.8	57.6	4	3					
311	Leather tanning and finishing	60.0	315.7	19.0	6.1	41.0	56.9	324.0	19.6	5.2	37.3	10	3					
3111	Leather tanning and finishing	60.0	315.7	19.0	6.1	41.0	56.9	324.0	19.6	5.2	37.3	10	3					
313	Boot and shoe cut stock and findings	5.4	68.9	3.6	-	1.9	5.2	64.0	3.4	-	1.9	3	3					
3131	Boot and shoe cut stock and findings	5.4	68.9	3.6	-	1.9	5.2	64.0	3.4	-	1.9	3	3					
314	Footwear, except rubber	44.1	536.5	34.5	(S)	9.7	42.7	578.4	32.9	(S)	9.8	1	2					
3142	House slippers	2.0	19.4	1.2	(S)	8	2.6	25.9	1.6	(S)	1.0	17	12					
3143	Men's footwear, except athletic	17.7	240.6	14.2	(S)	3.5	17.1	243.9	13.3	-	3.8	1	1					
3144	Women's footwear, except athletic	17.9	196.8	13.9	-	4.0	15.9	221.4	12.4	(S)	3.5	1	1					
3149	Footwear, except rubber, n.e.c.	6.5	79.7	5.2	-	1.3	7.1	87.2	5.6	-	1.5	1	2					
315	Leather gloves and mittens	2.5	14.8	.7	-	1.8	3.7	15.6	1.9	-	1.8	36	5					
3151	Leather gloves and mittens	2.5	14.8	.7	-	1.8	3.7	15.6	1.9	-	1.8	36	5					
316	Luggage	11.2	127.3	7.0	(S)	4.3	8.2	94.1	5.3	(S)	3.0	23	37					
3161	Luggage	11.2	127.3	7.0	(S)	4.3	8.2	94.1	5.3	(S)	3.0	23	37					
317	Handbags and other personal leather goods	8.6	93.4	6.4	-	2.2	8.0	92.1	5.8	-	2.1	7	4					
3171	Women's handbags and purses	4.7	57.5	3.8	-	9	4.3	56.3	3.4	-	9	12	9					
3172	Personal leather goods, n.e.c.	3.9	35.8	2.6	-	1.3	3.6	35.8	2.4	-	1.2	2	1					
319	Leather goods, n.e.c.	4.7	42.7	2.9	.4	1.8	4.5	42.7	2.7	-	1.8	7	10					
3199	Leather goods, n.e.c.	4.7	42.7	2.9	.4	1.8	4.5	42.7	2.7	-	1.8	7	10					
32	Stone, clay, and glass products	4 122.4	28 832.3	1 379.5	371.1	2 742.8	3 861.9	27 973.6	1 307.5	158.9	2 554.4	1	1					
321	Flat glass	263.5	1 223.3	58.0	70.1	205.5	230.5	1 194.6	54.3	6.1	176.2	2	2					
3211	Flat glass	263.5	1 223.3	58.0	70.1	205.5	230.5	1 194.6	54.3	6.1	176.2	2	2					
322	Glass and glassware, pressed or blown	982.7	6 724.5	309.7	(S)	673.0	932.1	6 931.7	300.3	(S)	631.8	1	1					
3221	Glass containers	677.1	4 496.3	215.5	(S)	461.7	665.0	4 784.4	214.8	-	450.2	1	1					
3229	Pressed and blown glass, n.e.c.	305.5	2 228.2	94.2	(S)	211.3	267.2	2 147.3	85.6	(S)	181.6	1	1					
323	Products of purchased glass	102.7	1 022.6	55.1	(S)	47.6	97.8	1 013.7	54.0	(S)	43.8	1	1					
3231	Products of purchased glass	102.7	1 022.6	55.1	(S)	47.6	97.8	1 013.7	54.0	(S)	43.8	1	1					
324	Cement, hydraulic	939.8	8 310.5	401.5	261.9	538.3	962.3	8 420.8	382.6	149.4	579.7	2	3					
3241	Cement, hydraulic	939.8	8 310.5	401.5	261.9	538.3	962.3	8 420.8	382.6	149.4	579.7	2	3					
325	Structural clay products	322.2	1 211.5	68.5	45.6	253.7	261.6	1 071.0	57.6	(S)	204.0	4	5					
3251	Brick and structural clay tile	191.5	703.5	37.7	46.3	153.9	141.3	566.1	30.4	-	110.9	5	7					
3253	Ceramic wall and floor tile	40.1	172.5	9.6	(S)	30.4	34.5	151.1	8.5	(S)	26.0	3	7					
3255	Clay refractories	63.6	266.7	14.2	-	49.4	60.6	283.1	14.5	-	46.1	3	8					
3259	Structural clay products, n.e.c.	27.0	68.9	7.0	-	20.0	25.2	70.7	4.2	-	21.0	20	7					
326	Pottery and related products	118.0	635.1	34.6	.4	83.4	102.7	593.3	30.0	1.7	72.7	5	2					
3261	Vitreous plumbing fixtures	44.6	198.3	10.2	.4	34.4	36.2	174.6	8.4	1.7	27.8	1	2					
3262	Vitreous china food utensils	15.1	57.2	3.1	-	12.0	13.9	63.1	3.3	-	10.6	5	3					
3263	Fine earthenware food utensils	6.5	24.4	1.5	-	4.9	5.9	25.2	1.5	-	4.4	13	13					
3264	Porcelain electrical supplies	32.0	246.2	12.6	-	19.4	29.0	234.9	11.5	-	17.6	9	3					
3269	Pottery products, n.e.c.	19.9	109.1	7.2	-	12.7	17.7	95.5	5.3	-	12.3	13	5					
327	Concrete, gypsum, and plaster products	745.8	4 267.3	182.0	5.3	563.8	677.5	3 262.3	171.9	(S)	505.6	3	3					
3271	Concrete block and brick	48.8	246.0	17.2	-	31.6	41.8	213.4	15.3	-	26.5	7	9					
3272	Concrete products, n.e.c.	85.3	488.7	29.4	-	55.8	85.2	465.4	29.3	(S)	56.0	4	5					
3273	Ready-mixed concrete	182.2	1 724.3	49.1	(S)	133.1	178.7	1 068.4	49.3	-	129.4	9	9					
3274	Lime	182.8	729.8	38.0	-	144.7	177.6	753.9	36.3	(S)	141.3	3	4					
3275	Gypsum products	246.8	1 078.6	48.2	7.7	198.6	194.1	761.2	41.6	(S)	152.4	5	4					
328	Cut stone and stone products	16.2	180.2	10.2	.8	6.0	15.6	181.6	9.9	(S)	5.6	2	3					
3281	Cut stone and stone products	16.2	180.2	10.2	.8	6.0	15.6	181.6	9.9	(S)	5.6	2	3					
329	Miscellaneous nonmetallic mineral products	631.5	5 257.1	259.9	29.3	371.6	581.9	5 304.5	246.8	25.7	335.1	2	3					
3291	Abrasive products	75.5	693.1	36.1	21.8	39.4	73.2	863.2	36.2	23.5	37.0	2	1					
3292	Asbestos products	32.6	348.3	18.7	.2	13.9	35.6	360.8	19.2	-	16.4	2	3					
3293	Gaskets, packing, and sealing devices	42.1	441.3	28.7	5.0	13.4	36.5	487.9	25.3	.3	13.2	6	2					
3295	Minerals, ground or treated	126.5	834.6	44.5	-	82.0	97.4	634.5	35.6	-	61.8	4	4					
3296	Mineral wool	268.6	2 443.5	106.1	2.4	162.5	245.7	2 420.0	101.3	1.9	144.4	1	3					
3297	Nonclay refractories	49.9	287.8	15.9	-	33.9	58.8	334.5	19.6	-	39.2	7	15					
3299	Nonmetallic mineral products, n.e.c.	36.4	208.6	9.9	-	26.5	32.6	203.6	9.6	-	23.1	19	15					

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for columns—		
		Cost of purchased fuels and electric energy (million dollars)	Electric energy			Cost of purchased fuels and electric energy (million dollars)	Electric energy							
			Purchased	Generated less sold	Cost of purchased fuels		Purchased	Generated less sold	Cost of purchased fuels					
										Quantity (million kWh)	Cost (million dollars)			
A	B	C	D	E	F	G	H	I	J	C	D			
33	Primary metal industries	9 425.7	120 460.7	4 647.3	8 300.9	4 778.4	9 096.1	123 216.1	4 567.9	7 847.0	4 528.2	1	1	
331	Blast furnace and basic steel products	5 068.4	40 062.8	1 928.0	7 109.3	3 140.4	5 043.4	42 175.0	1 997.6	6 249.9	3 045.7	1	1	
3312	Blast furnaces and steel mills	4 608.7	34 124.8	1 670.6	6 013.8	2 938.1	4 589.5	35 740.6	1 720.3	5 607.9	2 869.3	1	1	
3313	Electrometallurgical products	153.9	3 050.9	103.3	1 091.9	50.6	149.0	3 440.9	121.4	621.6	27.6	1	1	
3315	Steel wire and related products	93.7	1 236.6	52.2	-	41.5	90.7	983.7	49.6	7.1	41.1	2	1	
3316	Cold finishing of steel shapes	111.1	854.4	52.6	2	58.5	103.7	1 070.2	52.5	13.2	51.2	1	1	
3317	Steel pipe and tubes	101.0	796.1	49.3	3.4	51.7	110.4	939.6	53.8	(S)	56.6	3	4	
332	Iron and steel foundries	936.4	8 395.1	473.8	10.8	462.7	841.2	8 976.2	466.0	18.2	375.2	1	1	
3321	Gray iron foundries	707.9	5 901.3	328.7	14.2	379.2	593.6	5 985.1	308.1	20.5	285.5	1	1	
3322	Malleable iron foundries	45.9	594.2	28.7	-	17.2	44.3	562.6	27.6	-	16.7	3	2	
3324	Steel investment foundries	38.6	411.9	24.9	(S)	13.7	39.7	435.3	26.5	(S)	13.2	3	2	
3325	Steel foundries, n.e.c.	144.0	1 187.7	91.4	8	52.5	163.6	1 993.2	103.8	(S)	59.8	2	2	
333	Primary nonferrous metals	1 903.4	57 476.3	1 531.5	1 176.8	372.0	1 786.6	57 007.5	1 414.3	1 593.0	372.3	1	1	
3331	Primary copper	184.0	984.0	42.6	261.9	141.4	173.6	1 205.5	44.4	278.8	129.2	1	1	
3332	Primary lead	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
3333	Primary zinc	50.1	899.2	29.7	693.0	20.4	53.7	927.0	33.5	319.1	20.3	1	1	
3334	Primary aluminum	1 467.4	52 869.5	1 358.1	10.3	109.3	1 360.0	51 946.9	1 240.3	820.1	119.6	1	1	
3339	Primary nonferrous metals, n.e.c.	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
334	Secondary nonferrous metals	184.3	963.8	52.4	-	131.9	195.0	1 129.1	57.8	7.2	137.2	1	1	
3341	Secondary nonferrous metals	184.3	963.8	52.4	-	131.9	195.0	1 129.1	57.8	7.2	137.2	1	1	
335	Nonferrous rolling and drawing	952.4	10 413.1	477.0	5.8	475.4	860.7	10 619.3	451.7	(S)	409.0	1	1	
3351	Copper rolling and drawing	146.2	1 698.6	86.4	3.0	59.9	131.4	1 553.0	79.9	2.6	51.5	1	1	
3353	Aluminum sheet, plate, and foil	372.6	3 775.3	140.0	-	232.7	321.3	3 682.9	128.8	-	192.5	1	1	
3354	Aluminum extruded products	141.1	1 194.9	63.8	1.4	77.2	125.4	1 335.2	60.9	(S)	64.5	2	1	
3355	Aluminum rolling and drawing, n.e.c.	16.6	195.2	5.8	5.3	10.8	18.3	201.7	6.2	-	12.1	1	1	
3356	Nonferrous rolling and drawing, n.e.c.	87.1	1 133.7	48.9	(S)	38.2	82.7	1 395.1	48.7	(S)	34.0	1	1	
3357	Nonferrous wire drawing and insulating ..	188.9	2 415.4	132.1	(S)	56.8	181.6	2 451.4	127.3	(S)	54.4	1	1	
336	Nonferrous foundries	241.7	2 137.8	118.8	(S)	123.0	222.0	2 072.1	107.8	(S)	114.2	2	2	
3361	Aluminum foundries	169.5	1 490.2	77.4	-	92.1	157.8	1 505.3	72.1	-	85.7	1	2	
3362	Brass, bronze, and copper foundries	31.6	306.5	20.3	-	11.3	29.0	268.4	17.5	(S)	11.6	10	7	
3369	Nonferrous foundries, n.e.c.	40.7	341.1	21.1	(S)	19.6	35.2	298.4	18.3	-	16.9	4	6	
339	Miscellaneous primary metal products	139.0	1 011.8	65.9	-	73.0	147.3	1 237.1	72.7	(S)	74.7	7	8	
3398	Metal heat treating	94.3	623.7	41.1	-	53.1	93.3	694.9	42.6	(S)	50.7	10	10	
3399	Primary metal products, n.e.c.	44.7	388.1	24.8	-	19.9	54.0	542.2	30.0	(S)	24.0	9	11	
34	Fabricated metal products	2 522.7	25 505.6	1 456.3	57.0	1 066.3	2 463.5	25 531.6	1 405.6	(S)	1 057.9	1	1	
341	Metal cans and shipping containers	217.9	2 414.7	119.6	24.0	98.3	214.8	2 404.0	118.8	(S)	96.0	1	1	
3411	Metal cans	188.9	2 041.6	106.0	24.0	82.8	188.7	2 199.4	106.7	(S)	82.0	1	1	
3412	Metal barrels, drums, and pails	29.1	373.2	13.6	-	15.5	26.1	204.6	12.1	-	14.0	7	5	
342	Cutlery, hand tools, and hardware	209.8	2 081.1	130.1	53.1	79.7	199.0	2 105.2	124.4	31.2	74.6	2	1	
3421	Cutlery	19.9	149.8	10.5	53.2	9.3	23.8	189.2	14.4	49.2	9.4	1	2	
3422	Hand and edge tools, n.e.c.	60.4	637.7	37.2	-	23.2	57.3	638.6	34.7	-	22.7	4	2	
3425	Hand saws and saw blades	12.2	130.9	9.3	-	2.9	11.8	161.8	8.9	-	2.9	5	3	
3429	Hardware, n.e.c.	17.4	1 162.7	73.2	(S)	44.2	106.1	1 115.6	66.5	(S)	39.6	1	1	
343	Plumbing and heating, except electric	77.4	689.9	40.8	7.1	36.6	74.2	702.2	39.2	9.8	35.0	1	1	
3431	Metal sanitary ware	28.3	254.0	13.1	13.0	15.2	25.9	239.2	11.7	9.8	14.2	1	1	
3432	Plumbing fittings and brass goods	20.2	224.0	13.6	(S)	6.6	18.3	210.1	12.4	-	5.8	2	2	
3433	Heating equipment, except electric	29.0	211.9	14.2	(S)	14.8	30.0	252.9	15.1	-	14.9	1	1	
344	Fabricated structural metal products	479.9	5 773.4	287.6	(S)	192.4	494.0	5 894.8	296.5	9.3	197.5	2	2	
3441	Fabricated structural metal	100.0	1 103.8	62.2	(S)	37.8	124.5	1 620.5	80.1	3.2	44.4	3	7	
3442	Metal doors, sash, and trim	74.8	1 010.8	44.5	(S)	30.3	62.9	619.3	35.8	6.5	27.1	8	5	
3443	Fabricated plate work (boiler shops)	129.7	1 300.5	77.7	(S)	52.0	139.7	1 587.3	80.6	2.7	59.1	1	2	
3444	Sheet metal work	94.0	1 403.1	51.0	2.0	43.0	82.7	1 046.2	45.9	(S)	36.8	5	2	
3446	Architectural metal work	23.0	257.6	14.6	-	8.3	19.1	197.5	12.1	-	7.0	4	6	
3448	Prefabricated metal buildings	24.8	227.2	14.9	-	9.9	24.3	274.6	14.9	(S)	9.4	2	2	
3449	Miscellaneous metal work	33.6	470.4	22.7	(S)	10.9	40.8	549.4	27.2	-	13.6	2	2	
345	Screw machine products, bolts, etc.	140.3	1 184.8	86.3	1.0	53.9	132.8	1 230.8	80.8	(S)	52.1	2	2	
3451	Screw machine products	39.2	383.1	28.0	1.0	11.3	37.6	377.7	26.1	(S)	11.5	3	5	
3452	Bolts, nuts, rivets, and washers	101.0	801.7	58.4	(S)	42.7	95.3	853.1	54.7	-	40.5	2	2	
346	Metal forgings and stampings	588.0	5 640.4	327.9	1	260.1	554.3	5 163.7	293.1	1.8	261.2	1	2	
3462	Iron and steel forgings	155.8	944.8	60.8	4	94.9	177.8	1 014.7	62.4	(S)	115.3	1	2	
3463	Nonferrous forgings	50.9	309.1	20.4	-	30.5	40.8	289.1	17.7	2.3	23.0	1	1	
3465	Automotive stampings	214.4	2 781.7	146.4	(S)	68.0	189.4	2 427.5	127.2	-	62.2	1	2	
3466	Crowns and closures	21.3	213.4	10.1	4	11.2	17.9	175.2	8.9	-	9.1	3	2	
3469	Metal stampings, n.e.c.	145.6	1 391.5	90.2	(S)	55.5	128.4	1 257.2	76.8	(S)	51.6	2	6	
347	Metal services, n.e.c.	257.4	1 942.7	130.8	6.9	126.6	245.6	1 976.4	121.9	8.6	123.7	7	6	
3471	Plating and polishing	160.5	1 351.4	91.3	6.9	69.2	143.6	1 273.0	80.4	8.6	63.2	8	5	
3479	Metal coating and allied services	97.0	591.4	39.5	-	57.5	101.9	703.4	41.5	-	60.5	12	12	
348	Ordinance and accessories, n.e.c.	142.8	1 436.2	72.7	(S)	70.1	141.3	1 476.9	69.7	(S)	71.6	3	2	
3482	Small arms ammunition	20.2	196.1	10.0	-	10.2	19.2	183.0	9.2	(S)	10.0	1	1	
3483	Ammunition, except for small arms, n.e.c.	71.2	493.8	29.0	(S)	42.2	66.5	431.6	24.0	(S)	42.5	5	1	
3484	Small arms	15.4	149.4	10.5	2.0	4.8	19.2	207.0	13.2	(S)	6.1	11	16	
3489	Ordinance and accessories, n.e.c.	36.0	596.9	23.2	(S)	12.8	36.4	655.3	23.4	(S)	13.1	1	1	
349	Miscellaneous fabricated metal products ..	409.0	4 342.4	260.5	1	148.5	407.5	4 577.5	261.1	(S)	146.4	1	1	
3493	Steel springs, except wire	15.5	91.1	5.9	-	9.6	15.4	102.3	5.8	(S)	9.6	2	2	
3494	Valves and pipe fittings	143.7	1 694.6	97.7	(S)	46.0	145.7	1 792.6	98.5	(S)	47.3	1	1	
3495	Wire springs	22.6	198.5	13.6	-	9.0	19.7	187.5	12.0	-	7.7	5	6	
3496	Miscellaneous fabricated wire products ..	51.8	577.8	32.2	-	19.7	46.7	473.9	28.2	(S)	18.4	3	3	
3497	Metal foil and leaf	45.2	669.5	33.6	7	15.6	51.1	722.6	37.2	(S)	13.9	1	1	
3498	Fabricated pipe and fittings	40.7	352.2	24.5	-	16.1	41.9	414.0	24.7	(S)	17.2	4	3	
3499	Fabricated metal products, n.e.c.	85.5	758.7	52.9	(S)	32.6	87.0	884.6	54.7	(S)	32.3	2	2	

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1983 and 1982—Con.

(For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

SIC code	Industry group and industry	1983					1982					Standard error of estimate (percent) for columns— for columns— C E		
		Cost of purchased fuels and electric energy (million dollars)	Electric energy		Generated less sold (million kWh)	Cost of purchased fuels (million dollars)	Cost of purchased fuels and electric energy (million dollars)	Electric energy		Generated less sold (million kWh)	Cost of purchased fuels (million dollars)			
			Purchased					Purchased						
A	B	C	D	E	F	G	H	I	J	C	E			
35	Machinery, except electrical	2 423.0	29 376.2	1 643.4	93.8	770.9	2 472.3	30 563.5	1 652.0	66.4	820.3	1	1	
351	Engines and turbines	208.8	2 244.5	124.4	26.7	84.4	211.1	2 413.0	125.1	34.9	86.0	1	1	
3511	Turbines and turbine generator sets	54.3	481.0	30.2	24.1	24.0	60.5	612.9	34.7	27.4	25.9	1	1	
3519	Internal combustion engines, n.e.c.	154.5	1 763.6	94.2	2.6	60.4	150.5	1 800.1	90.4	7.5	60.1	1	1	
352	Farm and garden machinery	155.5	1 636.3	84.3	55.4	71.2	170.8	1 820.3	89.9	76.9	80.9	1	1	
3523	Farm machinery and equipment	132.0	1 405.2	70.3	55.4	61.7	147.7	1 574.9	77.1	76.9	70.7	2	1	
3524	Lawn and garden equipment	23.5	231.1	14.0	-	9.5	23.0	246.1	12.8	-	10.2	2	2	
353	Construction and related machinery	383.0	4 589.4	248.3	(S)	134.7	442.7	5 311.8	276.2	14.2	166.5	1	1	
3531	Construction machinery	176.2	2 015.9	109.1	27.6	67.1	187.4	2 246.0	114.3	13.6	73.0	1	1	
3532	Mining machinery	22.7	326.9	15.9	-	6.8	27.3	360.3	18.2	-	9.0	1	1	
3533	Oil field machinery	107.6	1 491.5	75.6	(S)	32.0	150.9	1 883.7	95.5	(S)	55.3	1	2	
3534	Elevators and moving stairways	10.2	91.3	6.3	-	3.9	10.0	106.9	6.6	-	3.4	2	3	
3535	Conveyors and conveying equipment	27.6	246.4	17.4	(S)	10.2	27.5	281.1	17.1	(S)	10.4	1	2	
3536	Hoists, cranes, and monorails	13.1	131.1	7.6	-	5.5	14.6	145.6	8.4	-	6.2	2	3	
3537	Industrial trucks and tractors	25.6	286.3	16.4	(S)	9.1	25.0	288.2	15.9	7	9.1	1	2	
354	Metalworking machinery	276.1	2 919.7	185.3	(S)	82.0	276.4	3 304.3	191.9	1.5	84.6	2	2	
3541	Machine tools, metal cutting types	53.3	551.3	35.5	(S)	17.8	59.5	677.9	39.8	(S)	19.7	1	1	
3542	Machine tools, metal forming types	18.9	211.9	12.3	-	6.6	22.3	254.6	14.1	-	8.3	2	2	
3544	Special dies, tools, jigs, and fixtures	89.5	926.6	60.7	1.8	28.8	88.1	971.0	59.3	2.2	28.8	3	3	
3545	Machine tool accessories	55.4	631.7	42.1	1.0	13.3	57.7	759.4	44.5	1.0	13.2	5	3	
3546	Power driven hand tools	28.9	317.3	15.5	-	4.6	21.1	357.2	16.1	-	5.0	1	1	
3547	Rolling mill machinery	10.4	79.6	5.8	-	4.6	9.9	91.9	5.8	-	4.2	1	2	
3549	Metalworking machinery, n.e.c.	19.7	201.2	13.4	(S)	6.3	17.7	192.3	12.4	2	5.4	4	8	
355	Special industry machinery	170.7	1 752.9	113.0	(S)	57.7	185.9	2 074.8	121.3	(S)	64.5	3	4	
3551	Food products machinery	28.0	229.0	16.6	(S)	11.4	28.5	279.5	16.4	(S)	12.1	3	3	
3552	Textile machinery	20.4	257.7	11.6	-	8.8	20.9	241.2	11.8	-	9.1	4	2	
3553	Woodworking machinery	9.1	110.9	6.3	-	2.9	9.1	130.2	6.1	-	3.0	5	6	
3554	Paper industries machinery	17.2	164.9	11.3	-	6.0	17.5	177.7	11.4	-	6.1	2	2	
3555	Printing trades machinery	27.4	292.8	19.0	(S)	8.4	28.2	374.9	19.7	(S)	8.5	2	5	
3559	Special industry machinery, n.e.c.	68.5	697.7	48.3	-	20.2	81.7	871.3	55.9	-	25.8	6	10	
356	General industrial machinery	386.9	4 508.0	251.1	(S)	135.7	392.7	4 744.6	255.5	(S)	137.2	2	2	
3561	Pumps and pumping equipment	67.3	754.1	48.7	(S)	18.6	75.9	1 028.1	55.0	(S)	20.8	6	2	
3562	Ball and roller bearings	105.4	1 271.7	66.2	-	39.2	101.8	1 255.1	62.5	-	39.3	4	1	
3563	Air and gas compressors	36.3	436.0	21.4	(S)	14.8	39.0	462.0	23.2	-	15.7	3	2	
3564	Blowers and fans	28.6	271.7	17.3	-	11.3	28.3	283.7	17.5	-	10.8	2	3	
3565	Industrial patterns	7.1	60.5	4.4	-	2.7	6.8	61.6	4.1	-	2.7	7	6	
3566	Speed changers, drives, and gears	27.7	301.5	17.2	-	10.5	29.3	343.6	19.2	(S)	10.1	3	4	
3567	Industrial furnaces and ovens	14.6	133.0	8.6	(S)	6.1	13.6	152.5	8.7	-	4.9	4	15	
3568	Power transmission equipment, n.e.c.	37.0	476.5	23.9	-	13.1	39.4	519.5	25.9	(S)	13.5	4	9	
3569	General industrial machinery, n.e.c.	62.8	(S)	43.4	(S)	19.4	58.6	638.5	39.2	11.9	19.4	5	2	
357	Office and computing machines	365.4	6 003.8	311.9	(S)	53.6	344.7	5 159.5	289.8	(S)	55.0	1	2	
3573	Electronic computing equipment	315.1	5 390.4	275.5	(S)	39.6	290.0	4 442.8	251.6	(S)	38.4	1	3	
3574	Calculating and accounting machines	8.4	117.3	6.6	(S)	1.8	9.7	148.3	6.6	-	3.1	1	1	
3576	Scales and balances, except laboratory	4.6	48.9	3.2	-	1.3	4.8	50.6	3.3	-	1.5	4	2	
3579	Office machines, n.e.c., and typewriters	37.3	447.3	26.5	-	10.7	40.3	517.8	28.3	(S)	12.0	2	1	
358	Refrigeration and service machinery	227.8	2 730.5	144.3	(S)	83.5	210.0	2 654.9	132.6	-	77.4	1	1	
3581	Automatic merchandising machines	8.1	80.2	4.8	-	3.3	6.7	59.5	3.8	-	2.9	5	2	
3582	Commercial laundry equipment	3.7	50.8	2.0	-	1.7	3.6	34.0	1.9	-	1.7	2	5	
3585	Refrigeration and heating equipment	182.3	2 315.6	117.4	-	64.9	169.1	2 246.9	108.1	-	61.0	1	1	
3586	Measuring and dispensing pumps	6.8	55.3	4.2	-	2.6	8.7	94.9	5.0	-	3.7	1	1	
3589	Service industry machinery, n.e.c.	26.9	228.7	15.9	(S)	11.0	21.9	219.6	13.8	-	8.1	4	6	
359	Miscellaneous machinery, except electrical	248.9	2 991.2	180.8	(S)	68.1	238.0	3 079.6	169.7	(S)	68.3	3	4	
3592	Carburetors, pistons, rings, valves	58.2	837.7	42.4	-	15.8	55.5	784.1	40.2	(S)	15.3	1	1	
3599	Machinery, except electrical, n.e.c.	190.7	2 153.5	138.5	(S)	52.3	182.5	2 295.5	129.5	2.8	53.0	3	5	
36	Electric and electronic equipment	2 162.0	32 041.1	1 570.8	65.5	591.2	2 068.6	28 879.7	1 494.9	78.7	573.7	1	1	
361	Electric distributing equipment	113.8	1 850.4	78.6	-	35.2	108.8	1 913.3	74.5	9	34.3	2	1	
3612	Transformers	54.2	663.1	35.2	-	19.1	52.3	745.6	34.1	-	18.3	1	1	
3613	Switchgear and switchboard apparatus	59.6	1 187.3	43.5	-	16.1	56.4	1 167.7	40.4	9	16.0	3	1	
362	Electrical industrial apparatus	272.1	3 906.3	181.1	(S)	90.9	272.4	3 928.5	177.6	(S)	94.8	1	1	
3621	Motors and generators	104.3	1 355.2	69.0	(S)	35.4	102.1	1 330.7	66.5	(S)	35.6	1	2	
3622	Industrial controls	44.2	553.9	32.7	-	11.5	44.9	659.9	32.6	-	12.3	1	2	
3623	Welding apparatus, electric	21.7	206.3	14.5	(S)	7.2	22.2	248.0	14.7	1	7.5	3	5	
3624	Carbon and graphite products	85.3	1 609.6	53.5	-	31.9	86.3	1 486.4	52.2	(S)	34.1	1	1	
3629	Electrical industrial apparatus, n.e.c.	16.6	181.4	11.6	-	5.0	16.9	203.5	11.7	(S)	5.2	2	2	
363	Household appliances	213.0	2 410.3	121.3	(D)	91.7	197.2	2 447.3	112.4	2.9	84.8	1	1	
3631	Household cooking equipment	47.1	446.7	23.9	(D)	23.2	39.1	422.4	19.6	2.9	19.4	4	1	
3632	Household refrigerators and freezers	36.1	488.4	22.5	-	13.6	34.3	508.3	20.8	-	13.5	1	1	
3633	Household laundry equipment	40.1	456.0	21.4	-	18.7	38.0	484.1	20.2	(S)	17.8	1	1	
3634	Electric housewares and fans	38.7	491.0	26.5	-	12.2	41.2	540.5	27.9	-	13.3	1	2	
3635	Household vacuum cleaners	12.3	170.0	8.3	-	4.0	10.1	136.3	6.6	-	3.5	1	1	
3636	Sewing machines	2.8	25.7	2.0	-	8	5.8	65.1	3.7	-	2.1	7	18	
3639	Household appliances, n.e.c.	35.9	332.0	16.8	-	19.0	28.7	290.6	13.5	-	15.2	1	1	
364	Electric lighting and wiring equipment	215.8	2 755.2	137.2	(S)	78.6	202.4	2 522.5	131.5	1.3	70.8	2	2	
3641	Electric lamps	43.1	482.7	24.4	-	18.7	38.6	478.3	23.3	-	15.3	1	1	
3643	Current-carrying wiring devices	45.1	823.8	32.9	(S)	12.2	38.7	593.2	28.6	6	10.1	2	2	
3644	Noncurrent-carrying wiring devices	55.1	603.9	37.3	-	17.8	55.4	632.6	37.2	(S)	18.2	2	6	
3645	Residential lighting fixtures	17.7	155.3	9.4	-	6.3	19.9	172.1	10.8	1.5	9.1	15	13	
3646	Commercial lighting fixtures	23.0	204.1	12.0	-	11.0	19.1	184.8	10.7	-	8.5	1	1	
3647	Vehicular lighting equipment	18.2	329.2	12.7	-	5.5	17.0	298.8	12.1	-	4.9	3	3	
3648	Lighting equipment, n.e.c.	13.6	156.1	8.4	(S)	5.2	13.8	162.7	8.9	-	4.8	2	2	
365	Radio and TV receiving equipment	68.4	798.3	43.6	(S)	24.8	66.2	851.8	43.0	(S)	23.2	1	2	
3651	Radio and TV receiving sets	40.3	526.2	29.6	(S)	10.7	36.7	541.9	28.5	(S)	8.3	1	1	
3652	Phonograph records and prerecorded tape	28.1	272.1	14.0	-	14.1	29.4	309.9	14.5	-	14.9	2	3	

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983				1982				Standard error of estimate (percent) for columns—			
		Cost of purchased fuels and electric energy (million dollars)	Electric energy		Generated less sold (million kWh)	Cost of purchased fuels and electric energy (million dollars)	Electric energy		Generated less sold (million kWh)				
			Purchased	Cost (million dollars)			Purchased	Cost (million dollars)					
												Quantity (million kWh)	Cost (million dollars)
		A	B	C	D	E	F	G	H	I	J	C	E
36	Electric and electronic equipment—Con.												
366	Communication equipment.....	447.2	8 964.2	359.1	(S)	88.0	441.8	5 973.8	352.8	(S)	89.0	1	2
3661	Telephone and telegraph apparatus.....	105.9	1 403.1	74.2	112.9	31.7	103.0	1 327.7	69.4	127.5	33.6	2	1
3662	Radio and TV communication equipment.....	341.2	4 702.4	285.0	(S)	56.3	338.8	4 646.1	283.4	(S)	55.4	1	2
367	Electronic components and accessories.....	640.4	8 808.7	512.5	(S)	127.9	598.6	8 736.6	473.4	(S)	125.2	1	2
3671	Electron tubes, all types.....	56.5	674.1	39.4	(S)	17.1	58.9	835.0	41.1	(S)	17.9	1	1
3674	Semiconductors and related devices.....	291.3	4 477.0	247.7	(S)	43.6	272.9	4 285.8	225.2	(S)	47.7	1	2
3675	Electronic capacitors.....	31.8	460.6	24.8	-	7.0	28.2	476.8	22.6	1.1	5.6	2	1
3676	Electronic resistors.....	15.6	219.7	13.5	-	2.1	16.0	261.7	13.9	-	2.0	4	7
3677	Electronic coils and transformers.....	12.6	149.4	9.0	-	3.5	10.5	113.8	7.4	(S)	3.1	6	5
3678	Electronic connectors.....	34.4	452.5	28.3	-	6.0	33.0	460.4	27.7	-	5.2	3	3
3679	Electronic components, n.e.c.....	198.3	2 375.3	149.9	(S)	48.5	179.2	2 303.1	135.5	(S)	43.7	3	5
369	Miscellaneous electrical equipment and supplies.....	191.3	2 547.7	137.3	(S)	54.0	181.2	2 505.9	129.7	(S)	51.6	2	1
3691	Storage batteries.....	72.5	1 004.6	51.9	(S)	20.6	69.8	1 005.2	49.6	(S)	20.2	1	1
3692	Primary batteries, dry and wet.....	15.6	210.5	11.4	-	4.2	15.5	242.9	11.0	-	4.4	1	1
3693	X-ray, electromedical, and electrotherapeutic apparatus.....	31.9	421.7	26.9	-	5.0	31.3	421.6	25.7	(S)	5.6	2	2
3694	Engine electrical equipment.....	47.6	682.5	32.6	-	15.0	41.1	588.8	28.5	(S)	12.5	2	2
3699	Electrical equipment and supplies, n.e.c.....	23.8	228.5	14.5	-	9.3	23.6	247.4	14.8	(S)	8.9	10	2
37	Transportation equipment.....	2 572.9	30 462.8	1 675.0	(S)	897.8	2 314.5	28 846.0	1 504.9	(S)	809.5	1	2
371	Motor vehicles and equipment.....	1 449.7	17 389.1	890.4	(S)	559.3	1 295.0	15 806.8	802.0	(S)	493.0	1	1
3711	Motor vehicles and car bodies.....	626.0	6 900.3	350.5	(S)	275.4	546.9	6 115.8	312.1	(S)	234.8	1	1
3713	Truck and bus bodies.....	30.9	444.8	17.6	(S)	13.3	32.2	422.1	18.0	-	14.1	2	3
3714	Motor vehicle parts and accessories.....	762.8	9 774.1	504.8	(S)	258.0	687.4	8 956.4	453.4	(S)	234.0	1	1
3715	Truck trailers.....	21.6	226.3	13.2	-	8.4	23.3	264.0	15.8	(S)	7.5	5	3
3716	Motor homes produced on purchased chassis.....	8.4	43.6	4.3	-	4.2	5.3	49.0	2.7	-	2.5	2	4
372	Aircraft and parts.....	667.4	8 266.2	465.4	(S)	202.0	591.1	7 932.5	408.7	(S)	182.5	1	7
3721	Aircraft.....	282.6	3 595.2	208.2	(S)	74.4	253.3	3 584.8	181.3	(S)	72.0	2	1
3724	Aircraft engines and engine parts.....	205.7	2 296.6	126.0	(S)	79.7	194.5	2 296.6	123.8	(S)	70.6	1	17
3728	Aircraft equipment, n.e.c.....	179.1	2 374.5	131.2	(S)	47.9	143.3	2 051.1	103.5	(S)	39.8	3	7
373	Ship and boat building and repairing.....	158.5	1 039.9	115.3	(S)	43.2	177.6	2 268.7	121.8	(S)	55.8	1	2
3731	Ship building and repairing.....	136.2	1 586.6	100.8	(S)	35.4	152.8	1 973.9	106.1	(S)	46.7	1	1
3732	Boat building and repairing.....	22.3	253.3	14.5	-	7.8	24.7	294.8	15.7	(S)	9.0	6	11
374	Railroad equipment.....	46.7	374.6	24.9	(D)	21.8	58.7	483.3	30.5	146.7	28.2	2	3
3743	Railroad equipment.....	46.7	374.6	24.9	(D)	21.8	58.7	483.3	30.5	146.7	28.2	2	3
375	Motorcycles, bicycles, and parts.....	41.5	197.3	17.3	-	24.2	17.0	166.4	8.8	-	8.3	1	1
3751	Motorcycles, bicycles, and parts.....	41.5	197.3	17.3	-	24.2	17.0	166.4	8.8	-	8.3	1	1
376	Guided missiles, space vehicles, parts.....	170.1	1 957.9	136.0	(S)	34.1	138.8	1 765.8	110.7	(S)	28.1	1	2
3761	Guided missiles and space vehicles.....	109.8	1 167.3	95.3	(S)	14.6	82.6	1 074.4	73.5	(S)	9.2	1	1
3764	Space propulsion units and parts.....	39.4	465.6	25.7	(S)	13.7	38.4	420.8	24.4	(S)	14.0	1	1
3769	Space vehicle equipment, n.e.c.....	20.9	325.0	15.1	-	5.8	17.8	270.6	12.8	-	5.0	9	7
379	Miscellaneous transportation equipment.....	38.9	437.8	25.6	-	13.3	36.3	422.5	22.6	(S)	13.8	2	2
3792	Travel trailers and campers.....	10.1	108.4	6.2	-	3.8	9.9	100.8	6.1	-	3.8	2	2
3795	Tanks and tank components.....	17.6	199.0	12.2	-	5.5	17.2	207.0	10.6	-	6.6	3	1
3799	Transportation equipment, n.e.c.....	11.2	130.4	7.2	-	3.9	9.2	114.7	5.9	(S)	3.3	4	5
38	Instruments and related products.....	616.5	6 615.4	404.1	(D)	212.4	561.6	6 348.5	360.3	(D)	201.3	1	1
381	Engineering and scientific instruments.....	33.2	411.0	25.2	(S)	8.0	29.7	391.6	22.7	-	7.0	2	4
3811	Engineering and scientific instruments.....	33.2	411.0	25.2	(S)	8.0	29.7	391.6	22.7	-	7.0	2	4
382	Measuring and controlling devices.....	167.6	2 199.4	129.1	(S)	38.4	154.9	2 098.9	118.5	(S)	36.3	2	4
3822	Environmental controls.....	23.3	298.7	16.7	-	6.6	20.9	282.8	15.0	-	5.9	2	4
3823	Process control instruments.....	42.7	504.3	33.7	(S)	9.0	39.2	487.5	30.7	(S)	8.6	6	3
3824	Fluid meters and counting devices.....	10.4	131.0	7.2	(S)	3.1	9.8	130.5	6.8	-	3.0	1	2
3825	Instruments to measure electricity.....	62.2	948.6	49.0	(S)	13.2	59.3	883.7	45.7	7	16.6	1	9
3829	Measuring and controlling devices, n.e.c.....	28.9	316.8	22.5	(S)	6.5	25.6	314.4	20.4	(S)	5.2	2	4
383	Optical instruments and lenses.....	48.7	547.4	39.6	(S)	9.1	38.6	510.4	30.8	(S)	7.8	5	13
3832	Optical instruments and lenses.....	48.7	547.4	39.6	(S)	9.1	38.6	510.4	30.8	(S)	7.8	5	13
384	Medical instruments and supplies.....	129.8	1 592.8	95.5	(S)	34.2	117.3	1 476.9	83.5	-	33.8	2	3
3841	Surgical and medical instruments.....	52.4	677.4	41.6	-	10.8	45.1	671.7	36.1	-	9.0	2	3
3842	Surgical appliances and supplies.....	68.3	817.1	47.5	(S)	20.8	62.5	704.8	40.5	-	22.0	3	4
3843	Dental equipment and supplies.....	9.1	98.2	6.5	-	2.6	9.7	100.4	6.8	-	2.9	5	9
385	Ophthalmic goods.....	25.1	235.9	16.1	(D)	9.0	24.1	263.3	16.3	34.1	7.8	3	1
3851	Ophthalmic goods.....	25.1	235.9	16.1	(D)	9.0	24.1	263.3	16.3	34.1	7.8	3	1
386	Photographic equipment and supplies.....	200.1	1 507.2	89.3	(D)	110.8	181.3	1 458.9	78.9	(D)	105.4	3	1
3861	Photographic equipment and supplies.....	200.1	1 507.2	89.3	(D)	110.8	181.3	1 458.9	78.9	(D)	105.4	3	1
387	Watches, clocks, and watchcases.....	12.1	121.7	9.2	-	2.9	12.8	148.5	9.6	-	3.2	1	2
3873	Watches, clocks, and watchcases.....	12.1	121.7	9.2	-	2.9	12.8	148.5	9.6	-	3.2	1	2

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 1983 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1983				1982				Standard error of estimate (percent) for columns			
		Cost of purchased fuels and electric energy (million dollars)	Electric energy		Cost of purchased fuels (million dollars)	Cost of purchased fuels and electric energy (million dollars)	Electric energy		Cost of purchased fuels (million dollars)				
			Purchased				Generated less sold (million kWh)	Purchased					
			Quantity (million kWh)	Cost (million dollars)				Quantity (million kWh)			Cost (million dollars)		
												Generated less sold (million kWh)	
A	B	C	D	E	F	G	H	I	J	C	E		
39	Miscellaneous manufacturing industries ...	355.3	3 627.2	233.4	(S)	121.9	327.7	3 652.5	213.7	22.0	114.0	2	2
391	Jewelry, silverware, and plated ware	30.1	267.3	21.3	-	8.8	26.4	278.0	18.2	.4	8.2	2	2
3911	Jewelry, precious metal	15.9	162.3	12.4	-	3.5	14.1	163.0	11.2	.4	3.0	2	4
3914	Silverware and plated ware	11.0	78.3	6.8	-	4.2	9.1	89.0	4.9	-	4.3	3	2
3915	Jewelers' materials and lapidary work	3.3	26.7	2.1	-	1.2	3.2	26.0	2.2	-	1.0	17	11
393	Musical instruments	15.4	250.4	11.4	(S)	4.0	15.2	245.6	10.6	-	4.6	3	20
3931	Musical instruments	15.4	250.4	11.4	(S)	4.0	15.2	245.6	10.6	-	4.6	3	20
394	Toys and sporting goods	96.4	1 048.5	64.2	2	32.2	97.2	1 109.2	65.1	.2	32.1	3	4
3942	Dolls	4.9	39.5	2.9	-	1.9	3.2	28.0	2.4	-	.8	3	2
3944	Games, toys, and children's vehicles	42.4	487.5	31.3	-	11.1	45.7	543.7	33.1	-	12.6	3	2
3949	Sporting and athletic goods, n.e.c.	49.2	521.4	30.0	2	19.2	48.4	537.5	29.6	.2	18.8	4	6
395	Pens, pencils, and office and art supplies ..	34.1	368.4	23.2	(S)	10.9	29.4	329.4	20.6	-	8.8	6	4
3951	Pens and mechanical pencils	11.4	139.7	9.4	-	2.0	9.8	124.4	7.9	-	1.9	14	4
3952	Lead pencils and art goods	8.4	87.2	4.9	(S)	3.6	6.6	74.9	4.2	-	2.3	1	9
3953	Marking devices	4.7	50.6	3.0	-	1.7	3.9	43.4	2.6	-	1.3	11	3
3955	Carbon paper and inked ribbons	9.6	90.9	5.9	(S)	3.6	9.1	86.7	5.8	-	3.3	2	2
396	Costume jewelry and notions	39.1	382.4	25.7	-	13.3	37.8	400.7	24.7	-	13.1	10	7
3961	Costume jewelry	14.5	131.5	8.6	-	5.9	13.3	111.1	7.9	-	5.3	4	6
3962	Artificial flowers	4.4	29.7	2.3	-	2.1	4.1	33.2	2.2	-	1.9	7	10
3963	Buttons	3.6	25.0	2.1	-	1.5	3.1	22.5	1.8	-	1.3	10	12
3964	Needles, pins, and fasteners	16.5	196.4	12.8	-	3.8	17.4	233.9	12.9	-	4.5	18	19
399	Miscellaneous manufactures	140.3	1 310.2	87.6	1.9	52.6	121.6	1 289.7	74.5	21.0	47.1	3	3
3991	Brooms and brushes	11.9	134.6	8.3	1	3.6	11.4	140.4	7.5	-	3.9	4	8
3993	Signs and advertising displays	44.7	369.9	27.5	(S)	17.2	36.6	353.7	20.6	-	16.0	7	4
3995	Burial caskets	10.5	105.7	6.0	.3	4.5	10.0	100.4	5.2	7.9	4.7	5	10
3996	Hard surface floor coverings	26.2	243.6	13.6	-	12.6	29.8	207.2	9.8	13.1	6.9	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	46.9	456.4	32.2	1.5	14.7	47.0	488.0	31.3	-	15.7	4	7

APPENDIX

Explanation of Terms

ALL EMPLOYEES

The category "all employees" comprises all full-time and part-time employees on the payrolls of operating manufacturing establishments who worked or received pay for any part of the pay period ended nearest the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded from the total.

Production Workers

This category includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Supervisory employees above the line-supervisor level are excluded from this category.

All Other Employees

Nonproduction personnel of the manufacturing establishment includes those engaged in the following activities: factory supervision above the line-supervisor level, sales (including driver salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force.

EMPLOYMENT AND PAYROLL FOR AUXILIARIES

Respondents were asked to file separate reports for any auxiliaries at a different location from the establishments served or at the same location as one of these establishments but not operated as an integral part thereof and administering and serving two establishments or more. Included in the category of auxiliaries are central administrative offices which include employees whose functions are general company policy determination, planning, and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company.

The employment and payroll data shown for central administrative offices and auxiliary units represent the total for all such units which primarily serve manufacturing plants.

AVERAGE EMPLOYMENT

The annual survey report forms requested employment figures for "production workers" for four selected pay periods (i.e., production workers' midmonth employment in March, May, August, and November). For "all other employees" only a mid-March figure was requested. Thus the "annual average" is composed of an average of the four monthly figures for the "production workers" plus the March figure for "all other employees."

PAYROLLS

This total includes the gross earnings paid to all employees on the payroll of operating manufacturing establishments in the calendar year. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations, but excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll of manufacturing establishments.

PRODUCTION-WORKER HOURS

This total consists of all plant hours of production workers as defined above. It represents all hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. Where employees elected to work during the vacation period, only actual hours worked by such employees were reported.

VALUE ADDED BY MANUFACTURE

This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments for products manufactured plus receipts for services rendered. The result of this calculation is then adjusted by the addition of value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacturing, processing, or assembly) plus the net change in finished goods and work-in-process inventories between the beginning and end of the year.

Value added avoids the duplication in the value of shipments figure which results from the use of products of some establishments as materials by others. Consequently, it is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

COST OF MATERIALS

This term refers to direct changes actually paid or payable for items consumed or put into production during the year, including freight changes and other direct changes incurred by the establishment in acquiring these materials. Manufacturers included the cost of materials or fuel consumed regardless of whether these items were purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

To arrive at the industry total cost of materials, separate figures were obtained for (a) the total delivered cost of all raw materials, semifinished goods, parts, components, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year; (b) the amount paid for electric energy purchased; (c) the amount paid for all fuels consumed for heat, power, or the generation of electricity; (d) the cost of work done by others on materials or parts furnished by manufacturing establishments (contract work); (e) the cost of products bought and resold in the same condition. The total excludes the cost of services used, such as advertising, insurance, telephone, etc., and research, developmental, and consulting services of other establishments; it also excludes overhead costs, such as depreciation charges, rent, interest, royalties, etc. Materials, machinery, and equipment used on plant expansion or capitalized repairs which are chargeable to fixed assets accounts are also excluded.

VALUE OF SHIPMENTS

The amounts under value of shipments are the received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. However, where the products of an industry are customarily delivered by the manufacturing establishments (i.e., bakery products, fluid milk, and soft drinks), the value of shipments is based on the delivered price of the goods rather than the f.o.b. plant price.

Under the general heading of shipments, manufacturers were asked to include all items made by or for each establishment from materials owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. Also included were receipts for contract work and for such miscellaneous activities as sale of scrap and refuse, installation work by manufacturing plant employees, research and development work, and repair work. The net selling value of products made in one plant on a contract basis from materials owned by others was reported by the plant providing the materials. The value of products bought and resold without further processing (merchandising) was reported separately and is included in the value of shipments totals for each industry. The inclusion of resales in total value of shipments is a change in procedure initiated with the 1958 Census of Manufactures.

In the case of multitunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company (i.e., other manufacturing plants, separate sales branches, or retail stores) as though the establishments were a separate economic unit. The company was requested to include in "value of interplant transfers within the company" not only the direct costs of production but also a reasonable proportion of "all other costs" (including company overhead) and profit.

For a relatively few industries (canning and preserving, other than meats, and apparel) where shipment figures are generally not maintained, the "value of production" was requested. These instances are noted in the tables for the industries involved.

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

Duplication of products within individual industries is significant within many of the machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry.

Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the United States level and beginning in 1964, for all geographic levels.

EXPENDITURES FOR PLANT AND EQUIPMENT

For establishments in operation and establishments under construction but not yet in operation, manufacturers were asked to report capital expenditures for (a) permanent additions and major alterations to manufacturing establishments and (b) new machinery and equipment used for replacement purposes and additions to plant capacity if they are the type for which depreciation accounts are ordinarily maintained.

These totals exclude that portion of expenditures for new facilities and equipment leased from nonmanufacturing concerns, raw facilities owned by the Federal government but operated under contract by private companies, and plant and equipment furnished to the manufacturer by communities and organizations. Expenditures for used plant and equipment, expenditures for land, and cost of maintenance and repairs charged as current operating expenses are also omitted.

END-OF-YEAR INVENTORIES

Respondents were asked to report their 1982 and 1983 end-of-year inventories at cost or market. Effective with the 1982 Economic Censuses, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior

to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few.) In 1982 and 1983, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment of the reserve.

Because of this change in reporting instructions, the 1982 and 1983 data for inventories and value added by manufacture included in the tables of this report are not comparable to the prior-year data shown in this report and in historical census of manufactures and annual survey of manufactures publications. Inventories and value added data estimated on a basis comparable to the historical data, using the reported information for 1982, are shown in footnote 4 of table 1a of the 1982 census final reports.

In using inventory data by stage of fabrication for "all industries" and at the two-digit industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown in individual industries, industry groups, and "all manufacturing," which are aggregates of figures reported by establishments in specified industries.

LABOR COSTS

Supplemental labor costs are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers'

compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. It includes the employer portion of such plans as insurance premiums, premiums for supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. It excludes such items as company operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees. While the excluded items do benefit employees and all or part of their cost is generally similar to the items covered in the annual survey labor cost statistics, accounting records do not, in general, provide reliable figures on net employee benefits of these types.

COST OF FUELS CONSUMED FOR HEAT, POWER, OR GENERATION OF ELECTRICITY, AND ELECTRIC ENERGY USED FOR HEAT AND POWER

These items refer to fuels and electric energy consumed for heat, power, or generation of electricity whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year. It also includes data on the quantity of purchased electric energy and quantity of generated-less-sold electric energy. The cost and quantity of purchased electric energy represent the amount actually used during the year for heat and power. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.